REMEDIAL ACTION QUARTERLY MONITORING REPORT

FIRST QUARTER – 2004 (3 of 120)

SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO

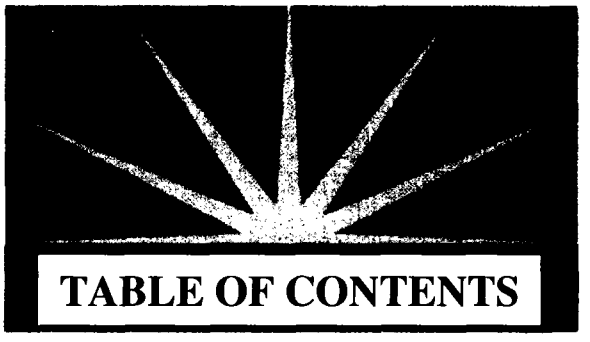
Prepared for:

Skinner Landfill Work Group
c/o Ben Baker
The Dow Chemical Company
Michigan Operations
47 Building
Midland, MI 48667

Prepared by:

Earth Tech, Inc.
2373 Progress Drive
Hebron, KY 41048

EarthTech
A Tyco International Ltd Company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LIST OF ACRONYMS

LIST OF ACRONYMS

AMP	Air Monitoring Plan
AOC	Administrative Order on Consent
ARAR	Applicable or Relevant and Appropriate Requirements
BMR	Baseline Monitor Report
BCDES	Butler County Department of Environmental Services
bgs	Below Ground Surface
BZ	Breathing Zone
CD&D	Construction Debris and Demolition Waste
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CGI	Combustible Gas Indicator
CHSD	Corporate Health and Safety Director
CIP	Construction Implementation Plan
CLP	Contract Laboratory Program
cm/sec	Centimeters Per Second
CO	Carbon Monoxide
CP	Contingency Plan
CQA	Construction Quality Assurance
CQAC	Construction Quality Assurance Consultant
CRZ	Contamination Reduction Zone
CRQL	Contract Required Quantitation Limit
CSDI	Contaminated Soils Design Investigation
CY	Cubic Yard
CZ	Control Zone
DSW	Division of Surface Water (OEPA)
DSR	Division Safety Representative
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FID	Flame Ionization Detector
FML	Flexible Membrane Liner (low density polyethylene)
FSP	Field Sampling Plan
FTB	Film Tearing Bond
ft	Feet
ft/sec	Feet Per Second
GCL	Geosynthetic Clay Layer
GCAL	Gulf Coast Analytical Laboratories Inc.
GIS	Groundwater Interceptor System
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWDI	Groundwater Design Investigation
HAP	Hazardous Air Pollutant
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life or Health

IRM	Interim Remedial Measures
kg/d	Kilograms Per Day
lb/day	Pounds Per Day
LEL	Lower Explosion Limit
LF	Lineal Feet
LLDPE	Linear Low-Density Polyethylene
µ	Micron
µg/l	Microgram per Liter
MSL	Mean Sea Level
NIOSH	National Institute for Occupational Safety and Health
NO_x	Oxides of Nitrogen
NWI	National Wetland Inventory
O_3	Ozone
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PID	Photoionization Detector
PLC	Programmable Logic Controller
PM-10	Particulate Matter less than 10 microns
PRP	Potentially Responsible Party
PPE	Personal Protective Equipment
psi	Pounds Per Square Inch
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RHSS	Regional Health & Safety Specialist
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager (USEPA)
RPO	Resident Project Observer
SI	Site Inspection
SF	Square Feet
SLWG	Skinner Landfill Work Group
SO_2	Sulfur Dioxide
SOP	Standard Operating Procedure
SOW	Statement of Work
SPCC	Spill Prevention Control and Counter Measure Plan
SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone

TAL	Target Analyte List
TCL	Target Compound List
TDH	Total Dynamic Head
TLV	Threshold Limit Values
TSS	Total Suspended Solids
TWA	Time Weighted Average
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	Volatile Organic Compound
yr	Year
WBGT	Wet Bulb Globe Temperature
WZ	Work Zone

1.0 INTRODUCTION

1.1 GENERAL INFORMATION

This quarterly monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. This report documents the results of groundwater and surface water monitoring conducted during the first quarter of 2004, which is the 3rd of 120 sampling events to be conducted during the 30-year monitoring period.

1.2 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.

1.3 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill. According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the

site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21, 1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review on January 22, 2004.

2.0 SAMPLING METHODS

This quarterly monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003, and
- RA Health and Safety Plan, Final February 2001.

There were no deviations from these work plans.

3.0 RESULTS

3.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes is presented on Table 1 with the corresponding potentiometric surface map provided in Appendix A. The groundwater flow direction and gradient remained relatively unchanged when compared to the previous quarterly monitoring report period. Groundwater flow direction is to the south-southeast directly toward the East Fork of Mill Creek with an average hydraulic gradient of 0.12 ft/ft. The groundwater gradient has remained relatively unchanged when compared to the average hydraulic gradient of 0.13 ft/ft documented in the Remedial Action Baseline Monitoring Report dated March 2005.

3.2 GROUNDWATER-WASTE MONITORING

Results of the piezometer groundwater levels used to monitor the groundwater levels relative to bottom of waste are provided on Table 2. Based on measured water levels, groundwater has been lowered below the waste elevation during this monitor event at piezometers P-11 and P-12, which are the two piezometers furthest from Duck Pond. The groundwater level remains above the bottom of waste at piezometers P-9 and P-10. The depth to water measurements for piezometers P-9, P-10 and P-11 were obtained with a smaller diameter water level indicator, as opposed to a groundwater interface probe, due to a pinching of the well casings that reduced the diameter of the piezometers.

3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

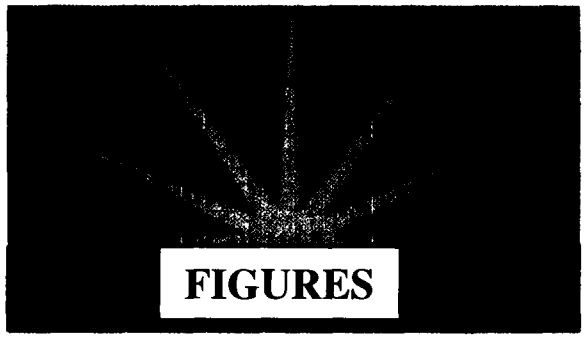
In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL.

Two of the sixteen TAL parameters, with a revised modified trigger level, were detected above the CRQL. Detections of iron (present in two groundwater monitoring wells) and barium (present in one groundwater monitoring well) were detected above the CRQL, but below the revised modified trigger levels.

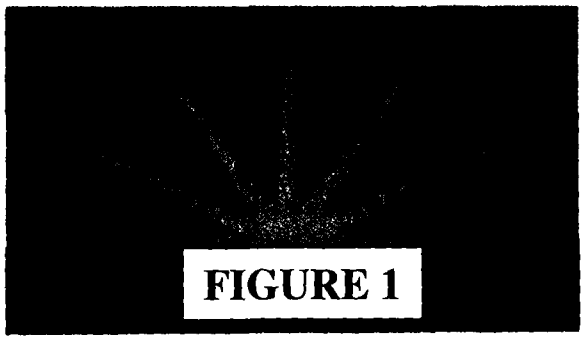
3.4 SURFACE WATER ANALYTICAL RESULTS

Surface water analyzed consisted of sampling surface runoff from the site and surface water directly from the East Fork of Mill Creek. A summary of TCL and TAL parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 4. A summary of surface water laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in surface water above the CRQL. None of the sixteen TAL parameters, with a revised modified trigger level, were detected above the CRQL.

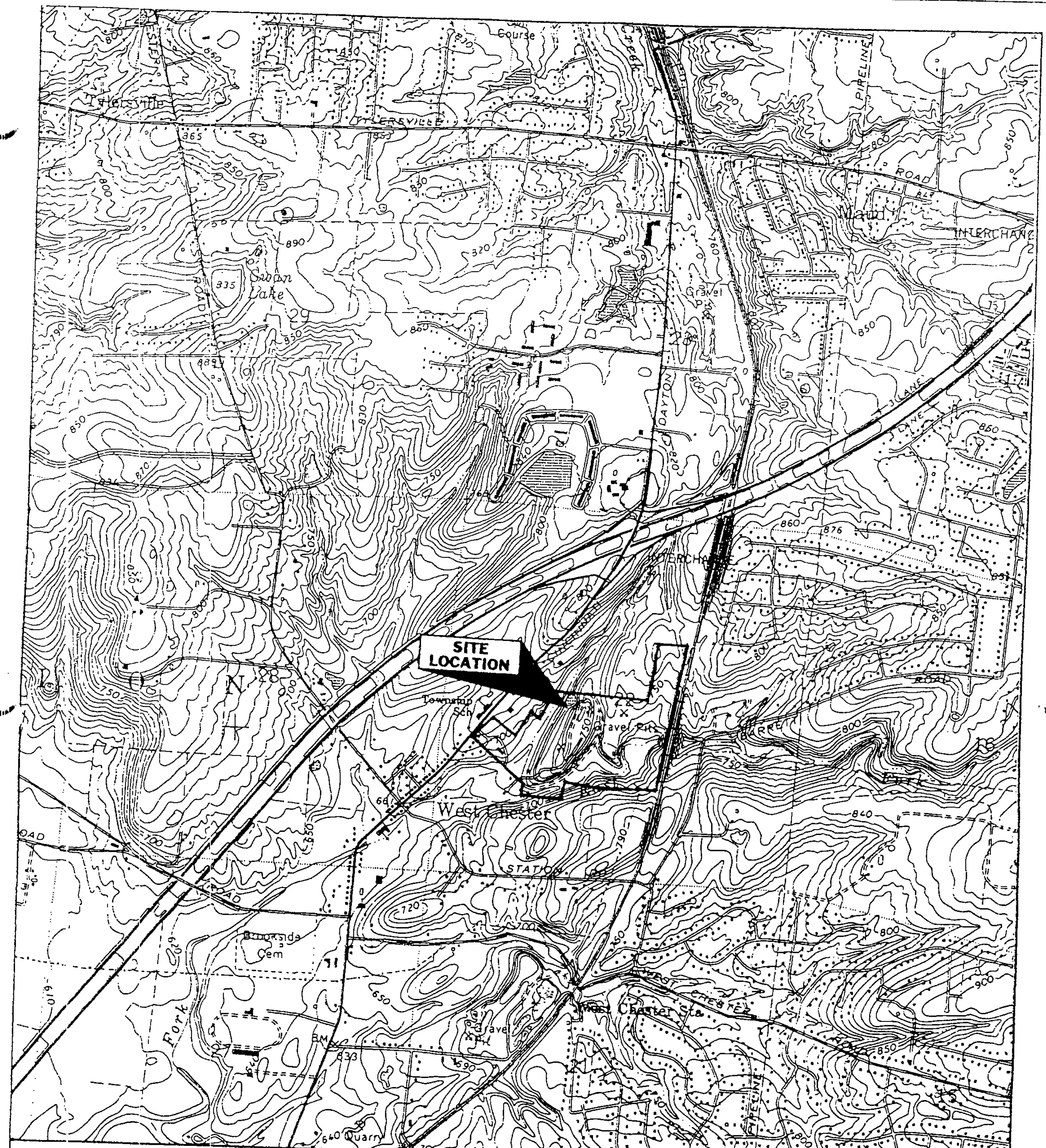


FIGURES



SITE VICINITY MAP

FIGURE 1



Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987

0 2000
FEET

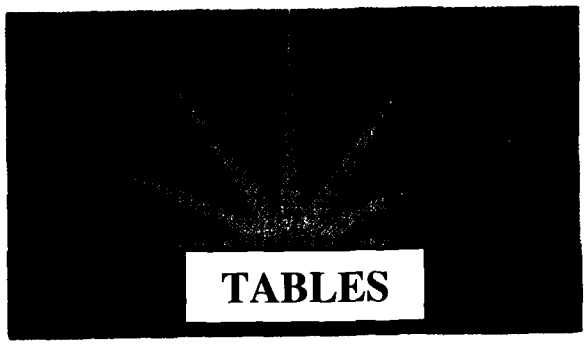
EARTH TECH

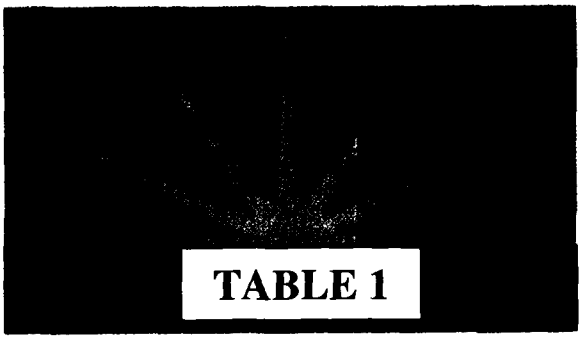
N

SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO


TABLES



GROUNDWATER ELEVATIONS

TABLE 1

EarthTech
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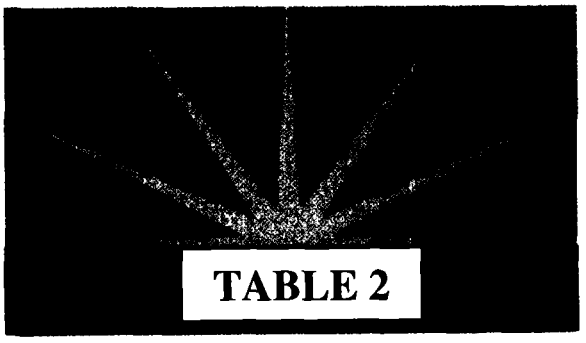
TABLE 1

Groundwater Elevation Summary

Skinner Landfill
West Chester, Ohio

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	March 2004	
					Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	9.75	677.90
	P-2	G	688.54	690.42	13.21	677.21
	P-3R	G	691.83	693.69	25.43	668.26
	P-4	G	700.32	702.63	6.68	695.95
	P-5	G	708.20	710.65	14.33	696.32
	P-6	G	707.45	710.59	12.45	698.14
	P-7	G	719.08	721.83	Dry	Dry
	P-8	G	747.70	749.91	29.73	720.18
	P-9	G	760.68	763.90	20.75	743.15
	P-10	G	761.34	764.16	26.10	738.06
	P-11	G	760.34	762.76	27.40	735.36
	P-12	G	743.50	746.17	40.65	705.52
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	9.94	675.97
	GW-07R	S	683.46	683.06	4.31	678.75
	GW-24	G	693.32	695.21	17.65	677.56
	GW-26	G	696.61	698.28	29.82	668.46
	GW-30	G	675.63	677.62	10.18	667.44
	GW-58	S	684.03	686.53	14.13	672.40
	GW-59	S	684.35	687.38	6.97	680.41
	GW-60	S	689.12	692.38	13.08	679.30
	GW-61	S	687.38	690.86	12.88	677.98
	GW-62A	S	690.19	692.38	29.81	662.57
	GW-62B	S	690.57	693.13	12.48	680.65
	GW-63	S	698.87	702.50	10.23	692.27
	GW-64	S	700.45	703.88	13.17	690.71
	GW-65	S	703.83	706.88	13.64	693.24
	GW-66	G	686.82	689.41	8.67	680.74
Gas Probes	GP-6	G	772.18	774.65	14.91	759.74
	GP-7	G	749.83	752.65	8.62	744.03

Notes:
MSL - Mean Sea Level
G - Gauging
S - Sampling and Gauging
— No Gauging Data Available (well constricted)



GROUNDWATER/WASTE ELEVATIONS

TABLE 2

EarthTech
A Tyco International Ltd Company

TABLE 2

Groundwater-Waste Monitoring Summary

Skinner Landfill
West Chester, Ohio

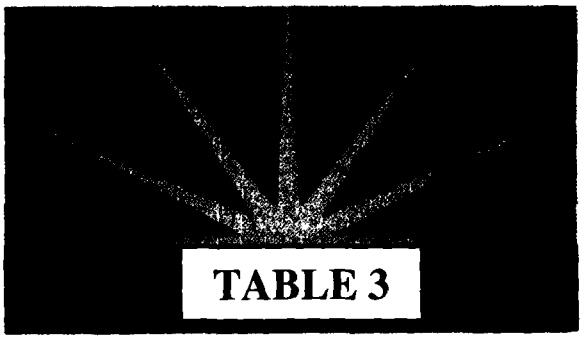
Piezometer	Depth to Waste (feet)	Bottom of Waste Elevation (MSL-feet)	Baseline Water Elevation (June 2001) (feet)	Water Elevation (May 2003) (feet)	Water Elevation (August 2003) (feet)	Water Elevation (November 2003) (feet)	Water Elevation (March 2004) (feet)
P-9	25	737	**745.00**	744.75	-	-	743.15
P-10	30	734	**744.50**	744.71	738.46	739.16	738.06
P-11	17	745	**744.30**	734.82	735.74	734.83	735.36
P-12	35	707	**713.50**	705.83	705.42	705.39	705.52

Notes:

Waste elevations determined during piezometer installation on June 28 and 29, 2001.

Shaded cells indicate water level elevations below the elevation of waste.

- No Gauging Data Available (well constricted)



GROUNDWATER RESULTS SUMMARY

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Table 3

Groundwater Summary

Skinner Landfill
West Chester, Ohio
First Quarter 2004

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R	-	-	*barium*	-
GW-07R	-	-	-	-
GW-58	-	-	*iron*	-
GW-59	-	-	-	-
GW-60	-	-	-	-
GW-61	-	-	*iron*	-
GW-62A	-	-	-	-
GW-62B	*	*	*	*
GW-63	-	-	-	-
GW-64	-	-	-	-
GW-65	-	*	*	*

- all parameters below report limits

italic - above Contract Required Quantitation Levels (CRQL's)

bold - above trigger level

* - Insufficient sample volume.

** - Dissolved metals for analytes that have a corresponding trigger level.

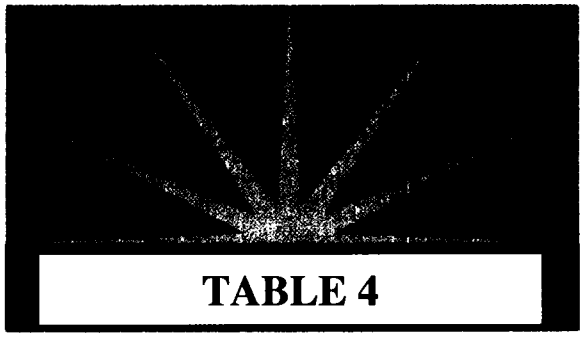


TABLE 4

SURFACE WATER RESULTS SUMMARY

Table 4

Surface Water Summary

Skinner Landfill
West Chester, Ohio
First Quarter 2004

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
SW-50	-	-	-	-
SW-51	-	-	-	-
SW-52	-	-	-	-
SWD-1	*	*	*	*
SWD-2	*	*	*	*
SWD-3	-	-	-	-

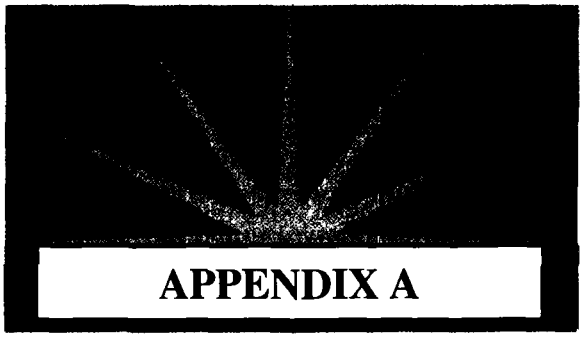
- all parameters below report limits

italic - above Contract Required Quantitation Levels (CRQL's)

bold - above trigger level

* - Insufficient sample volume.

** - Dissolved metals for analytes that have a corresponding trigger level.



APPENDIX A

POTENTIONMETRIC SURFACE MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX A – POTENTIOMETRIC SURFACE MAP

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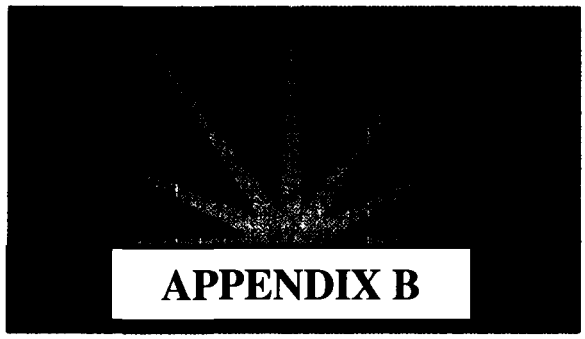

SUMMARY OF ANALYTICAL RESULTS

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-06R

Compound	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	13.3 B	6.0 B	3.0	7.0	3.7	3.7	3.7	60	60
Arsenic	8.1 B	3.6 U	3.6	2.9	2.9	2.9	2.9	20	10
Barium	266	254	256	224	309 J	294	266	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	189,000	189,000		5,000
Chromium	1.1 B	3.5 B	2.1	2.6	2.6	0.8	1.2	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	1.0 U	1.0 U	1.0 UJ	1.9	1.3	1.7	1.2	25	25
Iron	92.2 B	4.9 U	79.2	14.1	14.1	14.1	22.0	7,000	100
Lead	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	30,500	30,000		5,000
Manganese	—	—	—	—	—	77.0	69.5 J		15
Mercury	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.6 B	1.6 B	1.8	1.8	1.7	1.8	1.7	96	40
Potassium	—	—	—	—	—	2,400	2,060		5,000
Selenium	8.5 J	4.0 U	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	1.9 B	5.5 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	21,500	20,700		5,000
Thallium	3.7 B	3.6 UJ	3.6	2.6 UJ	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	1.6		50
Zinc	0.8 U	10.7 B	0.8 UJ	1.5	13.5	0.6 UJ	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	17,000	9,900		
Antimony	—	28.7 B	3.0	6.9	3.7	3.7	5.5		
Arsenic	—	73.2	38.8	2.9	13.2	20.5	12.4		
Barium	—	1,120	852	336	493	568	440		
Beryllium	—	3.3 B	2.5	0.1	0.3	1.2	1.1		
Cadmium	—	2.0 B	0.2 UJ	0.2	0.2	0.2	1.0		
Calcium	—	—	—	—	—	378,000	309,000		
Chromium	—	82.3	64.2	12.3	21.4 J	27.0	16.9		
Cobalt	—	—	—	—	—	24.1	12.3		
Copper	—	138	108 J	16.7	32.1	52.1	39.3		
Cyanide	4.0 U	4.0 UJ	4.0	3.0	3.0	3.0	1.0	10	10
Iron	—	123,000	94,100	13,100	27,200 J	45,400	25,300		
Lead	—	95.4 J	100 J	9.6 J	26.0 J	46.0	23.9		
Magnesium	—	—	—	—	—	115,000	83,600		
Manganese	—	—	—	—	—	2,940	988		
Mercury	—	0.2	0.2 J	0.1	0.1	0.1	0.1		
Nickel	—	114	88.2	14.1	26.0	41.2	23.4		
Potassium	—	—	—	—	—	5,050	3,970		
Selenium	—	65.7	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	10.6	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	22,100	21,900		
Thallium	—	3.6 UJ	4.9 J	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	41.5	22.2		
Zinc	—	379	279 J	61.5	87.8 J	147 J	72.9		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	12.0 U	10.0 U	906	10.0 U	10.0 U	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-07R

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	5.6 B	12.4 B	3.3	3.7	3.7	3.7	3.7	60	60
Arsenic	10.6	7.7 B	3.6	2.9	2.9	4.5	2.9	20	10
Barium	100 B	123 B	99.9	98.8	152 J	131	113	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	229,000	185,000		5,000
Chromium	0.7 U	2.9 B	2.7	2.0	2.9	0.8	1.1	11	10
Cobalt	—	—	—	—	—	1.4	0.7		50
Copper	1.0 U	1.0 U	1.0 UJ	1.2	1.2	1.2	1.2	25	25
Iron	1,760	1,250	241	146	301 J	3,580	32.9	7,000	100
Lead	1.3 U	1.3 UJ	1.3 R	1.5 J	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	33,000	26,300		5,000
Manganese	—	—	—	—	—	849	914 J		15
Mercury	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.1 B	1.9 B	3.4	3.2	2.4	1.6	2.2	96	40
Potassium	—	—	—	—	—	3,260	2,350		5,000
Selenium	11.3 J	4.0 U	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	0.9 B	4.7 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	42,200	25,200		5,000
Thallium	10.5	3.6 UJ	3.6	2.6 J	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	0.8		50
Zinc	10.1 B	11.3 B	0.8 UJ	10.2	10.9	30.7 J	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	3,130 J	7,810		
Antimony	—	14.2 B	3.0	3.7	3.7	3.7	6.6 J		
[illegible]nic	—	9.8 B	3.6	2.9	14.6	5.3	6.9		
[illegible]um	—	454	260.0	132	699	204	484		
Beryllium	—	0.2 B	0.1	0.1	0.3	0.1	0.8		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	0.2	0.9		
Calcium	—	—	—	—	—	246,000	281,000		
Chromium	—	19.3	9.1	3.7	21.5 J	4.9	12.9		
Cobalt	—	—	—	—	—	4.3	7.0		
Copper	—	21.8 B	8.2 J	4.2	30.4	10.0	35.5		
Cyanide	4.0 U	4.0 U	4.0	3.0	3.0	3.0	1.5	10.0	10.0
Iron	—	24,800	10,200	2,380	29,000 J	9,890	20,200		
Lead	—	9.1 J	1.3 R	1.5 UJ	16.8 J	5.2	9.2		
Magnesium	—	—	—	—	—	41,600	54,000		
Manganese	—	—	—	—	—	969	1,590		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	21.3 B	10.4	4.7	25.3	10.5	17.8		
Potassium	—	—	—	—	—	3,780	4,510		
Selenium	—	4.0 U	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	5.2 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	41,200	31,200		
Thallium	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	6.5	15.3 J		
Zinc	—	63.1	27.6 J	50.7	90.3 J	22.7 J	51.2		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-58

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	5.5 B	9.7 B	3.0	4.9	3.7	3.7	3.7	60	60
Arsenic	8.2 B	3.6 U	3.6	2.9	3.1	6.0	3.1	20	10
Barium	170 B	50.9 B	163	158	162 J	228	156	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	96,400	109,000		5,000
Chromium	0.7 U	2.9 B	2.7	2.8	2.5	0.8	1.5	11	10
Cobalt	—	—	—	—	—	0.4	1.3		50
Copper	1.0 U	1.0 U	1.0 UJ	1.2	1.2	1.2	2.9	25	25
Iron	3,440	4.9 U	249	1,140	488 J	2,890	209	7,000	100
Lead	1.3 U	1.3 U	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	32,800	32,500		5,000
Manganese	—	—	—	—	—	354	549		15
Mercury	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	2.6 B	1.7 B	2.2	2.4	1.2	1.3	2.6	96	40
Potassium	—	—	—	—	—	5,210	4,550		5,000
Selenium	4.0 UJ	4.0 UJ	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	0.5 U	4.1 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	34,400	32,400		5,000
Thallium	6.3 B	3.6 U	3.6	2.6 UJ	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	1.6		50
Zinc	1.6 B	11.0 B	0.8 UJ	19.2	7.7	0.6 UJ	0.6	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	41,600	12,000		
Antimony	—	14.3 B	3.0	5.2	3.7	3.7	5.7		
Arsenic	—	17.5	17.1	3.2	20.6	32.9	11.5 J		
rium	—	422	540	367.0	391	822	284		
eryllium	—	1.0 B	1.3	0.3	0.7	2.9	1		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	1.8	1.5		
Calcium	—	—	—	—	—	745,000	214,000		
Chromium	—	51.3	63.1	14.9	42.6 J	112	28.2		
Cobalt	—	—	—	—	—	57.2	13.4		
Copper	—	47.7	42.5 J	27.8	43.2	138	45.7		
Cyanide	4.0 U	4.0	4.0	3.0	3.0	3.0	0.5	10	10
Iron	—	54,500	61,900	17,000	40,800 J	129,000	32,700		
Lead	—	19.8 J	38.5 UJ	23.0 J	26.8 J	92.7	19.5		
Magnesium	—	—	—	—	—	148,000	56,000		
Manganese	—	—	—	—	—	4,200	1,300		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	56.2	66.5	20.1	50.6	124	32.1		
Potassium	—	—	—	—	—	11,800	7,640		
Selenium	—	4.0 U	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	5.9 B	0.5	0.4	0.4	1.6	0.4		
Sodium	—	—	—	—	—	36,900	33,500		
Thallium	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ	2.6	4.1 J		
Vanadium	—	—	—	—	—	74.0	23.2		
Zinc	—	153	164 J	78.7	137 J	367 J	81.0 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-59

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	27.2		200
Antimony	9.9 B	13.1 B	3.0	8.0	7.2	6.5	3.7	60	60
Arsenic	13.0	5.9 B	3.6	2.9	2.9	2.9	2.9	20	10
Barium	142 B	65.6 B	35.7	37.2	38.1 J	40.7	21.8	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	261,000	239,000		5,000
Chromium	9.6 B	4.6 B	4.9	4.4	3.3	0.8	1.8	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	2.2 B	1.0 U	1.0 UJ	3.5	3.0	4.0	2.1	25	25
Iron	4,900	4.9 U	591	14.1	14.1	14.1	28.8	7,000	100
Lead	1.5 B	1.3 UJ	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	59,500	49,000		5,000
Manganese	—	—	—	—	—	27.3	4.5 J		15
Mercury	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	12.3 B	1.8 B	3.5	3.5	3	2.3	2.6	96	40
Potassium	—	—	—	—	—	29,800	32,800		5,000
Selenium	15.8 J	18.2	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	2.7 B	7.2 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	186,000	166,000		5,000
Thallium	8.8 B	3.6 UJ	3.6 UJ	2.6 UJ	2.6	2.6 UJ	3.1 J	40	10
Vanadium	—	—	—	—	—	0.8	1.4		50
Zinc	7.9 B	7.2 B	0.8 J	1.2	18.4	0.6 UJ	3.1 J	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	3,710	816		
Antimony	—	19.5 B	3.0	3.7	3.7	3.7	4.7		
Arsenic	—	36.5	3.6	2.9	3.6	4.3	2.9		
Barium	—	215	202	55.2	62.1	213	55.0		
Beryllium	—	1.9 B	0.1	0.1	0.1	0.1	0.2		
Cadmium	—	0.7 B	0.2 UJ	0.2	0.2	0.2	0.2		
Calcium	—	—	—	—	—	281,000	243,000		
Chromium	—	82.4	18.8	5.4	8.3 J	19.1	5.5		
Cobalt	—	—	—	—	—	7.4	2.1		
Copper	—	45.0	1.0 UJ	3.6	6.0	11.9	10.1		
Cyanide	4.0 U	4.0	4.0	3.0	3.0	3.0	1.0	10	10
Iron	—	79,700	9,810	1,390	2,240 J	12,900	3,020		
Lead	—	36.7 J	1.3 R	1.5 UJ	5.7 J	10.0	1.5		
Magnesium	—	—	—	—	—	62,400	51,500		
Manganese	—	—	—	—	—	923	224		
Mercury	—	0.1 B	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	77.2	16.0	4.8	6.5	20.0	6.7		
Potassium	—	—	—	—	—	31,900	32,500		
Selenium	—	21.6	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	7.6 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	180,000	162,000		
Thallium	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	5.9	2.3		
Zinc	—	238	18.9 J	16.3	21.2 J	36.3 J	7.9 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
1,1-Dichloroethane				0.2 J	1.0 U	1.0 U	1.0 U		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — ≈ Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-60

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume		Insufficient Volume		Insufficient Volume		Insufficient Volume		
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	—	11.3 B	—	6.7	—	3.7	5.1	60	60
Arsenic	—	3.6 U	—	2.9	—	2.9	2.9	20	10
Barium	—	43 B	—	60.9	—	28.7	27.1	1,000	200
Beryllium	—	0.1 U	—	0.1	—	0.1	0.2	5	5
Cadmium	—	0.2 U	—	0.2	—	0.2	0.2	5	5
Calcium	—	—	—	—	—	100,000	309,000		5,000
Chromium	—	4.6 B	—	2.7	—	0.8	2.6	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	—	1.0 U	—	3.0	—	4.2	4.0	25	25
Iron	—	1.3 UJ	—	14.1	—	14.1	14.1	7,000	100
Lead	—	0.1 U	—	1.5 UJ	—	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	20,100	88,200		5,000
Manganese	—	—	—	—	—	2.4	0.5 J		15
Mercury	—	3.4 B	—	0.1	—	0.1	0.1	0.2	0.2
Nickel	—	13.3	—	1.1	—	0.7	2.4	96	40
Potassium	—	—	—	—	—	6,970	6,480		5,000
Selenium	—	5.8 B	—	4.4	—	4.4 R	4.4 UJ	8.5	5
Silver	—	3.6 UJ	—	0.4	—	0.4	0.4	10	10
Sodium	—	—	—	—	—	201,000	46,000		5,000
Thallium	—	10.4 B	—	2.6 UJ	—	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	0.8		50
Zinc	—	10.4 B	—	4.5	—	0.6 UJ	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	13,400 J	32,500		
Antimony	—	8.4 B	—	3.7	—	3.7	9.7		
Arsenic	—	5.7 B	—	2.9	—	11.7	17.0 J		
Barium	—	88.5 B	—	73.1	—	89.8	129		
Beryllium	—	0.1 U	—	0.1	—	0.9	2.5		
Cadmium	—	0.2 U	—	0.2	—	0.2	2.8		
Calcium	—	—	—	—	—	158,000	492,000		
Chromium	—	7.3 B	—	10.9	—	33.2	59.6		
Cobalt	—	—	—	—	—	16.6	36.1		
Copper	—	1.0 U	—	7.5	—	29.3	54.5		
Cyanide	—	4.0 U	—	3.0	—	3.0	—	10	10
Iron	—	2,780	—	7830	—	31,300	74,200		
Lead	—	1.3 UJ	—	1.5 UJ	—	28.2	40.4		
Magnesium	—	—	—	—	—	32,500	112,000		
Manganese	—	—	—	—	—	555	1,410		
Mercury	—	0.1 U	—	0.1	—	0.1	0.1		
Nickel	—	7.4 B	—	7.8	—	31.6	67.3		
Potassium	—	—	—	—	—	9,290	11,800		
Selenium	—	14.3	—	4.4	—	4.4 UJ	4.4 UJ		
Silver	—	5.0 B	—	0.4	—	0.4	0.4		
Sodium	—	—	—	—	—	212,000	44,600		
Thallium	—	3.6 UJ	—	2.6 UJ	—	2.6	11 J		
Vanadium	—	—	—	—	—	23.2	51.2		
Zinc	—	28.3	—	34.2	—	135 J	180 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	—	BRL	BRL		
Pesticides / PCBs	—	BRL	—	BRL	—	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-61

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	6.3 B	6.7 B	3.0	7.3	3.7	3.7	4.5	60	60
Arsenic	10.6	13.7	3.6	2.9	4.7	7.5	2.9	20	10
Barium	104 B	98.2 B	64.7	67.7	77.7 J	83.3	39.4	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.3	5	5
Calcium	—	—	—	—	—	191,000	191,000		5,000
Chromium	0.7 U	4.4 B	1.6	3.3	3.8	0.8	1.1	11	10
Cobalt	—	—	—	—	—	2.0	1.4		50
Copper	1.0 U	1.0 U	1.0 UJ	1.2	1.2	1.2	8.0	25	25
Iron	2,770	12,500	3,270	1,940	6,100 J	5,100	187	7,000	100
Lead	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	35,700	29,100		5,000
Manganese	—	—	—	—	—	866	485		15
Mercury	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.1 B	5.0 B	2.4	4.2	4.0	4.0	4.2	96	40
Potassium	—	—	—	—	—	10,100	6,990		5,000
Selenium	5.3 J	4.0 U	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	0.7 B	3.4 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	28,300	27,900		5,000
Thallium	5.6 B	3.6 UJ	3.6	2.6 UJ	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	1.2		50
Zinc	4.1 B	18.5 B	0.8 UJ	7.4	13.1	4.8 J	0.6	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	1,080	452		
Antimony	—	6.7 B	3.0	4.5	3.7	3.7	4.8		
Arsenic	—	13.7	3.6	3.2	17.9	3.7	2.9		
Barium	—	98.2 B	84.4	69.5	202	91.3	44.1		
Beryllium	—	0.1 U	0.1	0.1	0.2	0.1	0.2		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	0.2	0.3		
Calcium	—	—	—	—	—	190,000	187,000		
Chromium	—	4.4 B	5.6	2.9	23.2 J	2.1	1.9		
Cobalt	—	—	—	—	—	3.3	1.7		
Copper	—	1.0 U	1.0 UJ	1.2	28.2	4.2	22.2		
Cyanide	4.0 U	4.0 U	4.0	3.0	3.0	3.0	0.5	10	10
Iron	—	12,500	8,720	2,330	33,400 J	8,640	2,430		
Lead	—	1.3 UJ	1.3 R	1.5 UJ	19.7 J	1.6	22.1		
Magnesium	—	—	—	—	—	37,500	30,000		
Manganese	—	—	—	—	—	922	527		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	5.0 B	6.6	4.1	29.5	7.6	4.3		
Potassium	—	—	—	—	—	9,430	6,950		
Selenium	—	4.0 U	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	3.4 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	27,700	27,000		
Thallium	—	3.6 UJ	3.8 UJ	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	0.8	2.1		
Zinc	—	18.5 B	9.9 J	18.3	96.7 J	13.8 J	7.3 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	1.0 U		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	12.0 U	57.0 J	10.0 U	10.0 U	40.6	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-62A

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	7.3 B	12.7 B	3.0	9.6	3.7	3.7	3.7	60	60
Arsenic	4.9 B	3.6 U	3.6	2.9	2.9	2.9	2.9	20	10
Barium	174 B	157 B	162	146	145 J	126	111	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	123,000	122,000		5,000
Chromium	1.5 B	4.1 B	3.5	3.5	3.5	0.8	2.1	11	10
Cobalt	—	—	—	—	—	0.4	0.5		50
Copper	1.1 B	5.2 B	1.0 UJ	4.4	2.4	2.7	1.2	25	25
Iron	6.2 B	4.9 U	317	14.1	14.1	14.1	14.1	7,000	100
Lead	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magneisum	—	—	—	—	—	49,200	48,700		5,000
Manganese	—	—	—	—	—	51.4	164 J		15
Mercury	0.1 UJ	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.2 B	2.7 B	1.8	2.1	0.7	0.9	1.8	96	40
Potassium	—	—	—	—	—	10,800	11,100		5,000
Selenium	4.0 U	4.0 U	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	0.5 U	6.0 B	0.5	0.5	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	120,000	120,000		5,000
Thallium	7.9 B	3.6 UJ	3.6	2.6 UJ	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	1.6		50
Zinc	0.8 U	11.4 B	0.8 UJ	7.4	11.0	0.9 J	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	24,100	13,200		
Antimony	—	18.4 B	3.0	4.7	3.7	3.7	6.1		
Arsenic	—	17.0	20.7	8.7	18.3	17.7	8.3 J		
Barium	—	471	1,170	615	800	633	361		
Beryllium	—	0.5 B	1.7	0.8	1.1	1.5	1.1		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	1.1	1.6		
Calcium	—	—	—	—	—	618,000	337,000		
Chromium	—	38.6	85.5	49.3	68.6 J	49.5	29.6		
Cobalt	—	—	—	—	—	33.5	15.6		
Copper	—	42.3	76.1 UJ	45.2	68	72.8	42.7		
Cyanide	4.0 U	4.0 U	4.0	—	3.0	3.0	1.0	10.0	10.0
Iron	—	34,000	85,100	51,500	65,400 J	60,800	35,000		
Lead	—	33.3 J	68.0 UJ	33.6 J	65.2 J	72.8	39.5		
Magneisum	—	—	—	—	—	137,000	88,000		
Manganese	—	—	—	—	—	3,380	1,460		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	38.1 B	86.4	53.4	75.7	64.3	35.4		
Potassium	—	—	—	—	—	15,100	13,900		
Selenium	—	13.7	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	5.4 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	121,000	123,000		
Thallium	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ	2.6	6.9 J		
Vanadium	—	—	—	—	—	40.5	23.0		
Zinc	—	119	242 J	179	234 J	181 J	101 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-62B

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]	Well is Dry	Well is Dry	Well is Dry	Insufficient Volume	Well is Dry	Well is Dry	Well is Dry		
Inorganics - Metals and Cyanide (Total)	—	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	—	—	BRL	—	—	—		
Benzene	—	—	—	3.00	—	—	—	5	10
Semi-Volatile Organic Compounds (SVOCs)	—	—	—	BRL	—	—	—		
Bis (2-Chloroethyl) ether	—	—	—	24.5	—	—	—	13.6	10
Pesticides / PCBs	—	—	—	BRL	—	—	—		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-63

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	11.4 B	13.8 B	3.0	8.9	7.1	3.7	3.8	60	60
Arsenic	15.9	9.5 B	3.6	2.9	2.9	5.4	2.9	20	10
Barium	97.5 B	76.2 B	72.2	50.1	58.8 J	68.6	20.1	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.2	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	278,000	295,000		5,000
Chromium	1.2 B	3 B	3.6	3.4	3.2	0.8	1.8	11	10
Cobalt	—	—	—	—	—	4.1	1.1		50
Copper	1.0 U	1.0 U	1.0 UJ	1.2	1.2	1.2	2.0 J	25	25
Iron	592	758	622	297	1,890 J	1,150	21.4	7,000	100
Lead	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	61,000	67,000		5,000
Manganese	—	—	—	—	—	2,600	271 J		15
Mercury	0.1 UJ	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	12.8 B	7.4 B	6.6	5.9	8.3	6.9	3.2	96	40
Potassium	—	—	—	—	—	11,600	5,210		5,000
Selenium	15.3	8.7	4.0 R	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	2.0 B	3.6 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	72,100	46,100		5,000
Thallium	15.9	3.6 UJ	3.6	2.6 UJ	2.6	2.6 UJ	4.6 J	40	10
Vanadium	—	—	—	—	—	0.8	0.8		50
Zinc	0.8 U	7.8 B	0.8 UJ	12.9	10.8	3.7 J	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	10,500	26,600		
Antimony	—	20.2 B	3.0	4.6	3.7	3.7	5.7		
Arsenic	—	22.8	30.4	12.6	12.6	9.3	17.1 J		
Barium	—	234	390	178	217	147	186		
Beryllium	—	1.0 B	2.3	0.9	0.9	0.6	2.1		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	0.2	2.5		
Calcium	—	—	—	—	—	465,000	465,000		
Chromium	—	39.2	70.8	30.8	36.1 J	13.7	38.2		
Cobalt	—	—	—	—	—	17.5	28.3		
Copper	—	35.7	77.8 J	29.3	33.0	17.4	69.2		
Cyanide	4.0 U	4.0 U	4.0	3.0	3.0	3.0	0.5	10	10
Iron	—	55,500	109,000	44,100	53,900 J	25,800	63,200		
Lead	—	21.2 J	70.2 UJ	28.5 J	36 J	23.4	41.0		
Magnesium	—	—	—	—	—	96,100	111,000		
Manganese	—	—	—	—	—	4,090	2,570		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	56.6	104	47.5	59.6	31.0	58.1		
Potassium	—	—	—	—	—	31,500	9,320		
Selenium	—	27.8	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	7.3 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	73,600	45,000		
Thallium	—	3.6 U	3.6 UJ	2.6 UJ	2.6 UJ	2.6	8.5 J		
Vanadium	—	—	—	—	—	17.8	43		
Zinc	—	160	267 J	129	182 J	66.3 J	176 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Acetone	5.0 U	5.0 R	5.0 U	78.0 J	5.0 U	5.0 U	5.0 R		10
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
butylbenzylphthalate							0.61 J	10	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-64

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	5.9 B	12.3 B	3.0	5.3	4.2	3.7	3.7	60	60
Arsenic	9.2 B	7.3 B	3.6	2.9	2.9	2.9	2.9	20	10
Barium	34.6 B	53.5 B	31.0	28.9	31.5 J	44.6	28.3	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	185,000	176,000		5,000
Chromium	1.2 B	20.4	4.9	6.5	3.8	0.8	1.7	11	10
Cobalt	—	—	—	—	—	0.5	1.8		50
Copper	1.8 B	10.4 B	1.0 UJ	4.9	4.5	3.4	1.2	25	25
Iron	4.9 U	19,500	63.2 R	52.6	14.1	14.1	14.1	7,000	100
Lead	1.3 U	3.7 J	1.3 UJ	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	61,800	56,700		5,000
Manganese	—	—	—	—	—	292	1,170 J		15
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	10.9 B	33.6 B	12.8 R	13.4	9.4	5.2	7.8	96	40
Potassium	—	—	—	—	—	12,300	12,900		5,000
Selenium	6.6 J	4.6 B	4.0	4.4	4.4	4.4 R	4.4 UJ	8.5	5
Silver	0.8 B	5.7 B	0.5	0.4	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	67,600	53,900		5,000
Thallium	3.9 B	3.6 UJ	3.6	2.6 UJ	2.6	2.6 UJ	2.6	40	10
Vanadium	—	—	—	—	—	0.8	0.8		50
Zinc	0.8 U	64.5	0.8 UJ	9.1	16.1	2.6 J	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	18,700 J	3,080		
Antimony	—	12.3 B	3.0	5.6	3.7	3.7	4.9		
[illegible]enic	—	7.3 B	4.3	2.9	6.2	10.8	2.9		
[illegible]um	—	53.5 B	59.5	47.9	58.3	95.9	37.1		
[illegible]eryllium	—	0.1 U	0.5	0.1	0.2	1.0	0.3		
Cadmium	—	0.2 U	0.2 UJ	0.2	0.2	0.2	0.2		
Calcium	—	—	—	—	—	311,000	213,000		
Chromium	—	20.4	22.9	14.8	22.4 J	29.4	7.0		
Cobalt	—	—	—	—	—	23.1	5.4		
Copper	—	10.4 B	2.2 J	9.6	16.0	16.3	11.3		
Cyanide	4.0 U	4.0 U	4.0	3.0	3.0	3.0	1.3	10	10
Iron	—	19,500	25,900	14,700	24,300 J	42,900	7,520		
Lead	—	3.7 J	8.1 UJ	1.7 J	9.7 J	20.0	1.5		
Magnesium	—	—	—	—	—	77,300	66,000		
Manganese	—	—	—	—	—	2,390	1,650		
Mercury	—	0.1 U	0.1 UJ	0.1	0.1	0.1	0.1		
Nickel	—	33.6 B	38.3	26.1	33.9	46.0	16.4		
Potassium	—	—	—	—	—	14,700	15,000		
Selenium	—	4.6 B	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ		
Silver	—	5.7 B	0.5	0.4	0.4	0.4	0.4		
Sodium	—	—	—	—	—	68,300	59,800		
Thallium	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	27.3	5.3		
Zinc	—	64.5	51.3 J	69.1	73.6 J	114 J	13.6 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	12.0 U	10.0 U	10.0 U	10.0 U	10.0	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = *The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.*
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-65

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume		
Antimony	—	—	—	—	—	—	—	60	60
Arsenic	—	—	—	—	—	—	—	10	10
Barium	—	—	—	—	—	—	—	1,000	200
Beryllium	—	—	—	—	—	—	—	5	5
Cadmium	—	—	—	—	—	—	—	5	5
Chromium	—	—	—	—	—	—	—	11	10
Copper	—	—	—	—	—	—	—	25	25
Iron	—	—	—	—	—	—	—	5,000	100
Lead	—	—	—	—	—	—	—	4.2	3
Mercury	—	—	—	—	—	—	—	0.2	0.2
Nickel	—	—	—	—	—	—	—	96	40
Selenium	—	—	—	—	—	—	—	5	5
Silver	—	—	—	—	—	—	—	10	10
Thallium	—	—	—	—	—	—	—	40	10
Zinc	—	—	—	—	—	—	—	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	—	—	—	—	—	—		
Arsenic	—	—	—	—	—	—	—		
Barium	—	—	—	—	—	—	—		
Beryllium	—	—	—	—	—	—	—		
Cadmium	—	—	—	—	—	—	—		
Chromium	—	—	—	—	—	—	—		
Copper	—	—	—	—	—	—	—		
Cyanide	—	—	—	—	—	—	—	10	10
Iron	—	—	—	—	—	—	—		
Lead	—	—	—	—	—	—	—		
Mercury	—	—	—	—	—	—	—		
Nickel	—	—	—	—	—	—	—		
Selenium	—	—	—	—	—	—	—		
Silver	—	—	—	—	—	—	—		
Thallium	—	—	—	—	—	—	—		
Zinc	—	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	—		
4-Nitrophenol	50.0 U	29.8 UJ	10.0 U	10.0 U	10.0 U	10.0 U	—	150	25
Bis (2-ethlyhexyl) phthalate	20.0 U	11.9 U	10.0 U	10.0 U	10.0 U	10.0 U	—	49	10
Pesticides / PCBs	—	—	—	—	—	—	—		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	3.9 B	9.7 B	3.0 U	9.7 B	3.7	3.7	3.7	60	60
Arsenic	3.6 U	3.6 U	3.6 U	3.6 U	7.1	2.9	2.9	20	10
Barium	69.3 B	50.9 B	57.7 B	50.9 B	55.2	40.0	35.8	1,000	200
Beryllium	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	84,100	103,000		5,000
Chromium	0.7 U	2.9 B	2.1 B	2.9 B	1.8	0.8	1.6	11	10
Cobalt	—	—	—	—	—	0.5	0.4		50
Copper	1.0 U	1.0 U	1.0 UJ	1.0 U	3.1	4.4	4.3	25	25
Iron	56.0 B	4.9 U	129	4.9 U	14.1	14.1	14.1	7,000	100
Lead	1.3 U	1.3 U	1.3 R	1.3 U	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	23,400	29,700		5,000
Manganese	—	—	—	—	—	3.8	30.0 J		15
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	0.2	0.2
Nickel	0.8 B	1.7 B	0.8 B	1.7 B	0.7	0.7	1.0	96	40
Potassium	—	—	—	—	—	3,840	2,980		5,000
Selenium	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	8.5	5
Silver	0.7 B	4.1 B	0.5 U	4.1 B	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	32,100	59,200		5,000
Thallium	4.0 B	3.6 U	4.3 J	3.6 U	6.8 J	2.6	2.6	40	10
Vanadium	—	—	—	—	—	0.8	2.2		50
Zinc	1.3 B	11.0 B	0.8 UJ	11.0 B	13.8	0.6 UJ	0.6	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	25.8	62,300 J		
Antimony	—	9.3 B	3.0 U	9.3 B	3.7	3.7	7.3 J		
Arsenic	—	3.6 U	3.6 U	3.6 U	2.9	3.4	50.7 J		
Barium	—	50.7 B	58.1 B	50.7 B	55.4	41.3	499 J		
Beryllium	—	0.1 U	0.1 U	0.1 U	0.1	0.1	4.9		
Cadmium	—	0.2 U	0.2 UJ	0.2 U	0.2	0.2	5.0		
Calcium	—	—	—	—	—	86,400	427,000 J		
Chromium	—	3.2 B	2.3 B	3.2 B	1.7	0.8	72.6 J		
Cobalt	—	—	—	—	—	0.4	59.7		
Copper	—	4.4 B	5.7 J	4.4 B	2.5	4.4	131 J		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	3.0	3.0	0.8	10	10
Iron	—	4.9 U	141	4.9 U	23.5	69.2	124,000 J		
Lead	—	1.3 U	1.3 R	1.3 U	1.5	1.5	122 J		
Magnesium	—	—	—	—	—	23,900	80,300		
Manganese	—	—	—	—	—	5.8	5,690		
Mercury	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1		
Nickel	—	1.3 B	0.5 U	1.3 B	1.5	0.7	116 J		
Potassium	—	—	—	—	—	3,990	12,200		
Selenium	—	4.0 U	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R		
Silver	—	4.3 B	0.5 U	4.3 B	0.4	0.4	0.4		
Sodium	—	—	—	—	—	33,000	60,200		
Thallium	—	3.6 UJ	3.6 UJ	3.6 UJ	5.5 J	2.6	2.6		
Vanadium	—	—	—	—	—	0.8	105		
Zinc	—	13.1 B	2.0 J	13.1 B	10.9	1.3 J	490 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Fluoranthene							0.84 J	10	10
Phenanthrene							0.79 J	10	10
Pyrene							0.67 J		10
Diethylphthalate						2.17 J	10.0 U		10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	5.3 B	8.7 B	3.0 U	8.7 B	3.7	3.7	3.7	60	60
Arsenic	5.8 U	3.6 U	3.6 U	3.6 U	5.3	3.2	2.9	20	10
Barium	60.2 B	54.8 B	59.4 B	54.8 B	49.9	42.2	36.7	1,000	200
Beryllium	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	88,800	106,000		5,000
Chromium	0.7 U	2.7 B	2.5 B	2.7 B	0.8	0.8	1.7	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	5.1	3.0	25	25
Iron	6.4 B	4.9 U	11.9 B	4.9 U	14.1	14.1	14.1	7,000	100
Lead	1.3 U	1.3 U	1.3 R	1.3 U	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	24,700	31,500		5,000
Manganese	—	—	—	—	—	4.6	29.9 J		15
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	0.2	0.2
Nickel	0.7 B	1.7 B	0.5 U	1.7 B	0.7	0.7	2.4	96	40
Potassium	—	—	—	—	—	3,910	2,160		5,000
Selenium	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	8.5	5
Silver	0.5 U	3.3 B	0.5 U	3.3 B	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	34,000	60,200		5,000
Thallium	3.6 U	3.6 U	3.6 UJ	3.6 U	10.6	2.6	2.6	40	10
Vanadium	—	—	—	—	—	0.8	2.4		50
Zinc	0.8 U	26.8	0.8 UJ	26.8	13.9	0.6 UJ	3.4	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	25.8	9,250 J		
Antimony	—	7.8 B	3.0 U	7.8 B	3.7	3.7	3.7 UJ		
Arsenic	—	3.6 U	3.6 U	3.6 U	2.9	2.9	11.1 J		
Barium	—	51.8 B	59.3 B	51.8 B	50.9	42.6	112 J		
Beryllium	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.7		
Cadmium	—	0.2 U	0.2 UJ	0.2 U	0.2	0.2	0.5		
Calcium	—	—	—	—	—	86,700	153,000 J		
Chromium	—	2.7 B	2.8 B	2.7 B	1.7	0.8	12.7 J		
Cobalt	—	—	—	—	—	0.4	7.8		
Copper	—	1.0 U	1.0 UJ	1.0 U	1.9	3.2	22.0 J		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	3.0	3.0	0.6	10	10
Iron	—	10.0 B	74.8 B	10.0 B	49.5	83.8	17,800 J		
Lead	—	1.3 U	1.3 R	1.3 U	1.5	1.5	17.3 J		
Magnesium	—	—	—	—	—	23,900	38,900 J		
Manganese	—	—	—	—	—	6.5	685 J		
Mercury	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1		
Nickel	—	1.1 B	0.5 U	1.1 B	0.7	0.7	16.4 J		
Potassium	—	—	—	—	—	3,820	4,470		
Selenium	—	4.0 U	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R		
Silver	—	3.0 B	0.5 U	3.0 B	0.4	0.4	0.4		
Sodium	—	—	—	—	—	32,800	61,800		
Thallium	—	3.6 UJ	3.6 U	3.6 UJ	5.9 J	2.6	2.6		
Vanadium	—	—	—	—	—	0.8	18.7 J		
Zinc	—	12.7 B	7.8 J	12.7 B	9.7	0.6 UJ	52.9 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
***Semi-Volatile Organic Compounds* (SVOCs)**	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	25.8	25.8		200
Antimony	4.6 B	6.5 B	3.0 U	6.5 B	3.7	3.7	3.7	60	60
Arsenic	5.0 B	3.6 U	3.6 U	3.6 U	4.9	2.9	2.9	20	10
Barium	64.3 B	52.8 B	57.7 B	52.8 B	54.2	40.7	40.7	1,000	200
Beryllium	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	86,000	107,000		5,000
Chromium	0.8 B	2.8 B	3.5 B	2.8 B	2.1	0.8	1.3	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	1.0 U	1.0 U	1.0 UJ	1.0 U	2.3	3.7	2.0	25	25
Iron	4.9 U	4.9 U	575	4.9 U	14.1	14.1	14.1	7,000	100
Lead	1.3 U	1.3 U	1.3 R	1.3 U	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	23,500	30,700		5,000
Manganese	—	—	—	—	—	5.0	1.5 J		15
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	0.2	0.2
Nickel	0.5 U	1.2 B	1.5 B	1.2 B	1.1	0.7	0.7	96	40
Potassium	—	—	—	—	—	3,720	1,900		5,000
Selenium	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	8.5	5
Silver	0.5 U	3.5 B	0.5 U	3.5 B	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	32,900	61,400		5,000
Thallium	3.6 U	3.6 U	3.6 UJ	3.6 U	6.2 J	2.6	2.6	40	10
Vanadium	—	—	—	—	—	0.8	1.9		50
Zinc	0.8 U	15.8 B	0.8 UJ	15.8 B	26.5	1.5 J	4.5	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	25.8	26.8 J		
Antimony	—	5.9 B	3.0 U	5.9 B	3.7	3.7	3.7 UJ		
[illegible]nic	—	3.6 U	3.6 U	3.6 U	2.9	2.9	2.9		
[illegible]um	—	53.2 B	58.4 B	53.2 B	54.4	41.2	41.7 J		
Beryllium	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1		
Cadmium	—	0.2 U	0.2 UJ	0.2 U	0.2	0.2	0.2		
Calcium	—	—	—	—	—	84,800	108,000 J		
Chromium	—	3.7 B	2.4 B	3.7 B	1.5	0.8	1.7 J		
Cobalt	—	—	—	—	—	0.4	0.5		
Copper	—	1.0 U	1.0 UJ	1.0 U	1.7	3.3	3.2 J		
Cyanide	4.0 U	4.0 U	4.0 B	4.0 U	3.0	3.0	0.5 J	10	10
Iron	—	28.2 B	76.7 R	28.2 B	45.9	79.6	67.8 J		
Lead	—	1.3 U	1.3 R	1.3 U	1.5	1.5	1.5		
Magnesium	—	—	—	—	—	23,300	31,100 J		
Manganese	—	—	—	—	—	6.8	3.2 J		
Mercury	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1 J		
Nickel	—	1.9 B	0.5 U	1.9 B	0.7	0.7	1.1 J		
Potassium	—	—	—	—	—	3,710	1,900		
Selenium	—	4.0 U	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R		
Silver	—	3.3 B	0.5 U	3.3 B	0.4	0.4	0.6		
Sodium	—	—	—	—	—	32,800	61,200		
Thallium	—	3.6 UJ	3.6 U	3.6 UJ	6.0 J	2.6	2.6		
Vanadium	—	—	—	—	—	0.8	2.2 J		
Zinc	—	12.6 B	6.0 J	12.6 B	8.7	0.6 UJ	0.6		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	*September-02*	*December-02*	*February-03*	*May-03*	*August-03*	*November-03*	*March-04*	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]			Location is Dry			Location is Dry	Location is Dry		
Antimony	6.9 B	3.3 B	—	5.7 B	3.7	—	—	60	60
Arsenic	3.6 U	4.3 B	—	2.9 U	2.9	—	—	10	10
Barium	29.1 B	33.0 B	—	22.0 B	20.8	—	—	1,000	200
Beryllium	0.1 U	0.1 U	—	0.1 U	0.1	—	—	5	5
Cadmium	0.2 U	0.2 U	—	0.2 U	0.2	—	—	5	5
Chromium	0.7 U	2.1 B	—	2 B	0.8	—	—	11	10
Copper	2.5 B	2.4 B	—	9 B	5.1	—	—	25	25
Iron	1.3 U	4.9 U	—	14.1 U	14.1	—	—	5,000	100
Lead	0.1 U	1.3 U	—	1.5 UJ	1.5	—	—	4.2	3
Mercury	0.1 U	0.1 U	—	0.1 U	0.1	—	—	0.2	0.2
Nickel	2.6 B	1.7 B	—	1.3 B	1.5	—	—	96	40
Selenium	4.0 R	4.0 U	—	4.4 U	4.4	—	—	5	5
Silver	0.5 U	2.6 B	—	0.4 U	0.4	—	—	10	10
Thallium	3.6 U	3.6 U	—	2.6 UJ	2.6	—	—	40	10
Zinc	86.6 J	93.7	—	76.2	48.0 J	—	—	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	6.7 B	—	5.8 B	3.7	—	—		
Arsenic	—	7.2 B	—	2.9 U	2.9	—	—		
Barium	—	36.1 B	—	26.4 B	21.7	—	—		
Beryllium	—	0.1 U	—	0.1 U	0.1	—	—		
Cadmium	—	0.2 U	—	0.1 U	0.2	—	—		
Chromium	—	1.9 B	—	0.2 B	0.8	—	—		
Copper	—	6.3 B	—	3.6 B	24.0	—	—		
Cyanide	4.0 B	4.0 U	—	3.0 U	3.0	—	—	10	10
Iron	—	768	—	461	72.2	—	—		
Lead	—	1.3 U	—	1.5 UJ	1.5	—	—		
Mercury	—	0.1 U	—	0.1 U	0.1	—	—		
Nickel	—	3.7 B	—	1.3 B	1.4	—	—		
Selenium	—	4.0 U	—	4.4 U	4.4 UJ	—	—		
Silver	—	2.0 B	—	0.4 U	0.4	—	—		
Thallium	—	3.6 UJ	—	2.6 U	2.6 UJ	—	—		
Zinc	—	102	—	167	91.1 J	—	—		
Volatile Organic Compounds (VOCs)	BRL	BRL	—	BRL	BRL	—	—		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	—	BRL	BRL	—	—		
Pesticides / PCBs	BRL	BRL	—	BRL	BRL	—	—		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Location is Dry	Location is Dry				Location is Dry	Location is Dry		
Antimony	—	—	3.9 B	4.6 B	3.7	—	—	60	60
Arsenic	—	—	3.6 U	2.9 U	2.9	—	—	20	10
Barium	—	—	15.9 B	20.4 B	29.1	—	—	1,000	200
Beryllium	—	—	0.1 B	0.1 U	0.1	—	—	5	5
Cadmium	—	—	0.2 U	0.2 U	0.2	—	—	5	5
Chromium	—	—	0.7 U	2.4 B	0.8	—	—	11	10
Copper	—	—	2.3 B	5.0 B	1.2	—	—	25	25
Iron	—	—	4.9 U	14.1 U	14.1	—	—	7,000	100
Lead	—	—	1.3 U	1.5 UJ	1.5	—	—	4.2	3
Mercury	—	—	0.1 U	0.1 U	0.1	—	—	0.2	0.2
Nickel	—	—	1.8 B	2.8 B	2.3	—	—	96	40
Selenium	—	—	4.0 U	4.4 U	4.4	—	—	8.5	5
Silver	—	—	0.5 U	0.4 U	0.4	—	—	10	10
Thallium	—	—	7.1 B	2.6 U	2.6	—	—	40	10
Zinc	—	—	1.0 B	5.5 B	23.6 J	—	—	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	—	8.5 B	5.0 B	4.0	—	—		
Arsenic	—	—	3.6 U	2.9 U	2.9	—	—		
Barium	—	—	15.6 B	21.7 B	28.4	—	—		
Beryllium	—	—	0.1 U	0.1 U	0.1	—	—		
Cadmium	—	—	0.2 U	0.2 U	0.2	—	—		
Chromium	—	—	2.2 B	2.1 B	0.8	—	—		
Copper	—	—	10.9 B	2.8 B	11.7	—	—		
Cyanide	—	—	4.0 U	—	3.0	—	—	10	10
Iron	—	—	20.6 B	131	17.4	—	—		
Lead	—	—	1.3 U	1.5 UJ	1.5	—	—		
Mercury	—	—	0.1 U	0.1 U	0.1	—	—		
Nickel	—	—	2.8 B	2.6 B	2.4	—	—		
Selenium	—	—	4.0 UJ	4.4 U	4.4 UJ	—	—		
Silver	—	—	0.5 U	0.4 U	0.4	—	—		
Thallium	—	—	3.6 U	2.6 UJ	2.6 UJ	—	—		
Zinc	—	—	4.5 B	14.7 B	30.0 J	—	—		
Volatile Organic Compounds (VOCs)	—	—	—	—	BRL	—	—		
bis(2-Chloroethly) ether	—	—	—	—		—	—	13.6	10.0
Semi-Volatile Organic Compounds (SVOCs)	—	—	BRL	BRL	BRL	—	—		
Pesticides / PCBs	—	—	BRL	BRL	BRL	—	—		

Notes:

Laboratory Analytical data for July, August, and September of 2001 for SWD-2 is labeled as sample location "SWD-4" which was an alternate sample location in very close proximity to SWD-2 used when sample was not available a

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results				Quarterly Results				
Compound	September-02	December-02	February-03	May-03	August-03	November-03	March-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	—	—	98.7	34.6		200
Antimony	5.0 B	6.5 B	3.5 B	3.7 U	3.7	3.7	3.7	60	60
Arsenic	4.2 B	3.6 U	3.6 U	2.9 U	2.9	2.9	5.3	20	10
Barium	23.4 B	13.3 B	34.1 B	26.6 B	19.1	40.1	29.8	1,000	200
Beryllium	0.2 B	0.1 U	0.3 B	0.1 U	0.1	0.1	0.2	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2	5	5
Calcium	—	—	—	—	—	130,000	125,000		5,000
Chromium	0.7 U	2.7 B	0.7 U	2.3 B	0.8	1.4	0.8	11	10
Cobalt	—	—	—	—	—	0.4	0.4		50
Copper	2.0 B	1.0 U	1.0 U	2.3 B	1.2	10.4	4.6 J	25	25
Iron	14.3 B	4.9 U	59.5 B	14.7 B	14.1	59.0	17.2	7,000	100
Lead	1.3 U	1.3 U	1.3 U	1.5 UJ	1.5	1.5	1.5	4.2	3
Magnesium	—	—	—	—	—	28,500	30,400		5,000
Manganese	—	—	—	—	—	10.9	3.0		15
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1 UJ	0.1	0.2	0.2
Nickel	3.7 B	2.6 B	0.5 U	1.1 B	1.1	0.7	1.4	96	40
Potassium	—	—	—	—	—	3,870	3,570		5,000
Selenium	4.0 U	4.0 U	4.0 R	4.4 U	4.4	4.4	4.4 UJ	8.5	5
Silver	0.5 U	2.4 B	0.6 B	0.4 U	0.4	0.4	0.4	10	10
Sodium	—	—	—	—	—	11,100	12,200		5,000
Thallium	3.6 U	3.6 U	6.5 J	2.6 UJ	2.6	2.6	2.6	40	10
Vanadium	—	—	—	—	—	2.2	0.8		50
Zinc	6.7 B	14.9 B	3.2 B	2.2 B	19.0 J	91.6 J	0.6 UJ	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	—	—	177	1,800		
Antimony	—	6.5 B	4.0 B	4.1 B	3.7	3.7	5.2		
Arsenic	—	3.6 U	3.6 U	2.9 U	2.9	2.9	2.9		
Barium	—	24.3 B	41.8 B	37.7 B	29.0	37.0	40.0		
Beryllium	—	0.1 U	0.1 U	0.1 U	0.1	0.1	0.2		
Cadmium	—	0.2 U	0.2 U	0.2 U	0.2	0.2	0.2		
Calcium	—	—	—	—	—	12,100	131,000		
Chromium	—	5.0 B	6.4 B	4.2 B	0.8	1.0	1.4		
Cobalt	—	—	—	—	—	0.4	1.5		
Copper	—	4.4 B	8.8 B	6.0 B	8.6	14.8	11.0 J		
Cyanide	4.0 B	4.0 U	4.0 U	3.0 U	3.0	3.0	0.8	10	10
Iron	—	3,380	1,620	3,290	3,360	155	2,200		
Lead	—	1.3 U	1.4 B	1.5 UJ	1.5	1.5	1.5		
Magnesium	—	—	—	—	—	26,600	31,600		
Manganese	—	—	—	—	—	16.5	87.5		
Mercury	—	0.1 U	0.1 U	0.1 U	0.1	0.1 UJ	0.1		
Nickel	—	5.1 B	2.5 B	3.4 B	4.2	0.7	2.5		
Potassium	—	—	—	—	—	3,560	4,170		
Selenium	—	4.0 U	4.0 UJ	4.4 U	4.4 UJ	4.4	4.4 R		
Silver	—	2.6 B	0.5 U	0.4 U	0.4	0.4	0.4		
Sodium	—	—	—	—	—	10,300	12,600		
Thallium	—	3.6 UJ	3.6 U	2.6 UJ	2.6 UJ	2.6	2.6		
Vanadium	—	—	—	—	—	0.8	2.2		
Zinc	—	35.4	59.0	32.3	42.9 J	32.6 J	14.6 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
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6) — = Constituent not analyzed.
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9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
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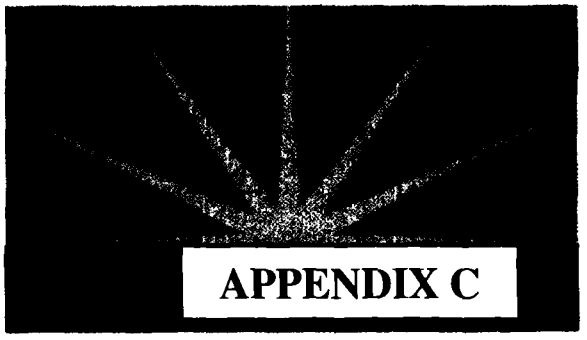
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.



LABORATORY DATA VALIDATION REPORT

EarthTech
A Tyco International Ltd Company

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204032408

PROJECT MANAGER: Ron Rolker

Date: May 25, 2004

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	**Bromofluorobenzene**
CC	**Continuing Calibration**
CCV	**Continuing Calibration Verification**
CCB	**Continuing Calibration Blanks**
CLP	**Contract Laboratory Program**
CRDL	**Contract Required Detection Limit**
DFTPP	**Decafluorotriphenylphosphine**
GC/MS	**Gas Chromatograph Mass Spectrometer**
IC	**Initial Calibration**
ICB	**Initial Calibration Blank**
IDL	**Instrument Detection Limit**
ICP	**Inductively Coupled Plasma**
ICS	**Interference Check Sample**
ICV	**Initial Calibration Verification**
ILM	**Inorganic Analysis Multi-Media Multi-Concentration**
INDAM	**Individual A Mixture**
INDBM	**Individual B Mixture**
mg/L	**milligrams per liter**
MS/MSD	**Matrix Spike Matrix Spike Duplicate**
OLC	**Organic Analysis Low Concentration**
OLM	**Organic Analysis Multi-Media Multi-Concentration**
%D	**Percent Difference**
% RSD	**Percent Relative Standard Deviation**
PB	**Preparation Blanks**
QC	**Quality Control**
RF	**Response Factor**
RPD	**Relative Percent Difference**
RRF	**Relative Response Factor**
SDG	**Sample Delivery Group**
SOW	**Statement of Work**
µg/L	**micrograms per liter**
US EPA	**United States Environmental Protection Agency**
VOC	**Volatile Organic Compounds**
VTSR	**Validated Time of Sample Receipt**

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240805	SKSW51DUP1009
20403240806	SKSW521009
20403240807	SKSW531009
20403240808	SKSWEB1009 (DISS)
20403240809	SKSW511009 (DISS)
20403240810	SKSW51MS1009 (DISS)
20403240811	SKSW51DUP1009 (DISS)
20403240812	SKSW521009 (DISS)
20403240813	SKSW531009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   - A. Initial Calibration (IC)
   - B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKSW511009 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the dissolved fraction were within the acceptance criteria (<20%) for all target compounds. The Relative Percent Difference (RPD) between the sample and duplicate results for the total fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Arsenic, Barium, Chromium, Copper, Iron, Lead, Nickel, and Zinc. As per the National Functional Guidelines, if the results from a duplicate analysis for a particular analyte falls outside the appropriate fixed control windows; qualify the results for that analyte in all associated samples of the same matrix as estimated (J).

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSW511009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Antimony (35%), Arsenic (151%), Selenium (0%), and Zinc (128%) in the total fraction and Arsenic (128%) and Selenium (0%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Barium, Chromium, Iron and Nickel in the total fraction. As per the National Functional Guidelines: if the required 10% Difference criteria are not met, qualify the associated data as estimated "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. **Holding Times**
2. **GC/MS Tuning**
3. **Calibration**
   - **A. IC**
   - **B. CC**
4. **Blanks**
5. **System Monitoring Compound Recovery**
6. **MS/MSD**
7. **Internal Standards Performance**
8. **Compound Identification**
9. **Constituent Quantitation and Reported Detection Limits**
10. **System Performance**
11. **Documentation**
12. **Overall Assessment**

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C – - 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Di-n-octylphthalate and Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

B. Continuing Calibration

One CC dated 4/7/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 4/7/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 4/7/04 were within the acceptance criteria with the exception the %D for Di-n-butylphthalate and Di-n-octylphthalate. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and an equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank (0325SBLK)

Di-n-butylphthalate was detected at a concentration of 0.851 ppb in method blank 0322SBLK.

Equipment Blank (SKSWEB1009)

Di-n-butylphthalate was detected at a concentration of 0.904 ppb in the equipment blank collected on 3/22/04. The Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's. GCAL also inadvertently left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on two GC/MS system, identified as MSV0 and MSV2. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/23/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 3/23/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

One CC dated 3/23/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

One laboratory volatile method blank, storage blank, and a Equipment Blank were analyzed with this SDG. The results are summarized below.

MB154405

1,2-Dichlorobenzene was detected at a concentration of 0.17 ppb in the method blank analyzed on 3/24/04.

Storage Blank (VHBLK01)

No compounds were detected above the MDL in the storage blank analyzed on 3/24/04.

Trip Blank

There was no Trip Blank submitted for this sampling event.

Equipment Blank (SKSWEB1009)

Acetone, Methylene chloride and Toluene were detected at concentrations of 2.8 ppb, 0.47 ppb and 1.1 ppb respectively in the equipment blank collected on 3/22/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91). GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently transposed the area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. The data validator corrected the mistake by drawing arrows to indicate the correct area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204032408 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

Method Blank 155051

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/26/04.

Equipment Blank SKSWEB1009

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 3/22/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of 4,4'-DDT (130%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. ***National*** *Functional Guidelines for Inorganic Data* ***Review.***

US EPA, 1999. ***National*** *Functional Guidelines for Organic Data* ***Review.***

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 04/16/2004

GCAL Report 204032408

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

CASE NARRATIVE

Client: Earth Tech **Report:** 204032408

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES MASS SPECTROMETRY

The MS/MSD recoveries for 4-Nitrophenol are above the control limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florisil check analysis, the recovery for DDT was above recovery limit, however DDT was not detected in the associated samples.

METALS

Barium, Chromium, Iron, and Nickel are flagged as estimated for samples associated with prep batch 271292 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected. In the ILM04.1 - CLP Metals analysis, the MS recovery was outside the control limits for Antimony, Arsenic, Selenium, and Zinc. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 109% for Antimony, 131% for Arsenic, 64% for Selenium, and 139% for Zinc. The MS recovery is not applicable for Iron and Lead because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Arsenic, Barium, Chromium, Copper, Iron, Lead, Nickel, and Zinc was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

In the ILM04.1 - CLP Metals analysis for prep batch 271294, the MS recovery was outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 106% for Arsenic and 94% for Selenium.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 204032408

THIS REPORT CONTAINS 436 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20403240801	SKSWEB1009	Water	03/22/2004 13:45	03/24/2004 09:20
20403240802	SKSW511009	Water	03/22/2004 10:40	03/24/2004 09:20
20403240803	SKSW51MS1009	Water	03/22/2004 10:55	03/24/2004 09:20
20403240804	SKSW51MSD1009	Water	03/22/2004 11:15	03/24/2004 09:20
20403240805	SKSW51DUP1009	Water	03/22/2004 11:15	03/24/2004 09:20
20403240806	SKSW521009	Water	03/22/2004 12:30	03/24/2004 09:20
20403240807	SKSW531009	Water	03/22/2004 12:55	03/24/2004 09:20
20403240808	SKSWEB1009 (DISS)	Water	03/22/2004 13:45	03/24/2004 09:20
20403240809	SKSW511009 (DISS)	Water	03/22/2004 10:40	03/24/2004 09:20
20403240810	SKSW51MS1009 (DISS)	Water	03/22/2004 10:55	03/24/2004 09:20
20403240811	SKSW51DUP1009 (DISS)	Water	03/22/2004 11:15	03/24/2004 09:20
20403240812	SKSW521009 (DISS)	Water	03/22/2004 12:30	03/24/2004 09:20
20403240813	SKSW531009 (DISS)	Water	03/22/2004 12:55	03/24/2004 09:20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403240801

Level: (low/med)

Lab File ID: 2040324/T2586

% Moisture: not dec.

Date Collected: 03/22/04 Time: 1345

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/24/04

Instrument ID: MSV2

Date Analyzed: 03/24/04 Time: 1851

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271209

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	2.8	J	0.010	5.0	J
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	0.47	J	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

6/3/04 MA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403240801

Level: (low/med) Lab File ID: 2040324/T2586

% Moisture: not dec. Date Collected: 03/22/04 Time: 1345

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/24/04

Instrument ID: MSV2 Date Analyzed: 03/24/04 Time: 1851

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271209

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.1		0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: Water Lab Sample ID: 20403240801

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 03/22/04 Time: 1345

% Moisture: not dec. Date Received: 03/24/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/24/04 Time: 1851

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403240802

Level: (low/med)

Lab File ID: 2040324/T2579

% Moisture: not dec.

Date Collected: 03/22/04 Time: 1040

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 03/24/04

Instrument ID: MSV2

Date Analyzed: 03/24/04 Time: 1541

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 271209

Analytical Method: OLCO 2.1

CONCENTRATION UNITS ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	J	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

4/13/04 MT

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20403240802

Lab File ID: 2040324/T2579

Date Collected: 03/22/04 Time: 1040

Date Received: 03/24/04

Date Analyzed: 03/24/04 Time: 1541

Dilution Factor: 1 Analyst: RJO

Prep Batch: Analytical Batch: 271209

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

E

VOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW511009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No SDG No.: 204032408

Matrix: Water Lab Sample ID: 20403240802

Sample wt/vol: Units Lab File ID

Level: (low/med) Date Collected: 03/22/04 Time: 1040

% Moisture: not dec. Date Received: 03/24/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/24/04 Time: 1541

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

FORM VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403240806

Level: (low/med)

Lab File ID: 2040324/T2584

% Moisture: not dec.

Date Collected: 03/22/04 Time: 1230

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/24/04

Instrument ID: MSV2

Date Analyzed: 03/24/04 Time: 1801

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271209

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0	U	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

6/3/04 pm

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403240806

Level: (low/med) Lab File ID: 2040324/T2584

% Moisture: not dec. Date Collected: 03/22/04 Time: 1230

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/24/04

Instrument ID: MSV2 Date Analyzed: 03/24/04 Time: 1801

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 271209

CONCENTRATION UNITS ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (tota	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW521009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: Water Lab Sample ID: 20403240806

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 03/22/04 Time: 1230

% Moisture: not dec. Date Received: 03/24/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/24/04 Time: 1801

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW531009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL

Lab Sample ID: 20403240807

Level: (low/med)

Lab File ID: 2040324/T2585

% Moisture: not dec.

Date Collected: 03/22/04 Time: 1255

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/24/04

Instrument ID: MSV2

Date Analyzed: 03/24/04 Time: 1826

Soil Extract Volume: (uL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (uL)

Prep Batch: Analytical Batch: 271209

Analytical Method: OLCO 2.1

CONCENTRATION UNITS ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

FORM 1 VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW531009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403240807

Level: (low/med)

Lab File ID: 2040324/T2585

% Moisture: not dec.

Date Collected: 03/22/04 Time: 1255

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/24/04

Instrument ID: MSV2

Date Analyzed: 03/24/04 Time: 1826

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271209

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

'E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW531009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: Water Lab Sample ID: 20403240807

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 03/22/04 Time: 1255

% Moisture: not dec. Date Received: 03/24/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/24/04 Time: 1826

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWEB1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204032408 | Lab File ID: 2040407P/S5094

Matrix: Water | Lab Sample ID: 20403240801

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/22/04 | Time: 1345

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 04/07/04 | Time: 1838

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/26/04 MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SKSWEB1009
Lab Code: LA024 Case No.:	Contract:
SAS No.: SDG No.: 204032408	Lab File ID: 2040407P/S5094
Matrix: Water	Lab Sample ID: 20403240801
Sample wt/vol: 1000 Units: mL	Date Collected: 03/22/04 Time: 1345
Level: (low/med)	Date Received: 03/24/04
% Moisture: decanted: (Y/N)	Date Extracted: 3/25/04
GC Column: DB-5MS-30M ID: .25 (mm)	Date Analyzed: 04/07/04 Time: 1838
Concentrated Extract Volume: 1000 (µL)	Dilution Factor: 1 Analyst: RLW
Injection Volume: 1.0 (µL)	Prep Method:
GPC Cleanup: (Y/N) N pH:	Analytical Method: OLMO 4.2
	Instrument ID: MSSV2
CONCENTRATION UNITS: ug/L	Prep Batch: 271238 Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	[illegible]	BJ	0.010	10.0 UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0 UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	10.0	U	0.010	10.0
129-00-0	Pyrene	10.0	U	0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

5/26/04

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204032408
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWEB1009
Contract:
Lab File ID: S5094
Lab Sample ID: 20403240801
Date Collected: 03/22/04 Time: 1345
Date Received: 03/24/04
Date Extracted: 3/25/04
Date Analyzed: 04/07/04 Time: 1838
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics deteced			

5/26/04 MSW

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW511009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204032408 | Lab File ID: 2040407P/S5095

Matrix: Water | Lab Sample ID: 20403240802

Sample wt/vol: 1000 Units: mL | Date Collected: 03/22/04 | Time: 1040

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: 25 (mm) | Date Analyzed: 04/07/04 | Time: 1905

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/26/04 pm

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW511009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204032408 | Lab File ID: 2040407P/S5095

Matrix: Water | Lab Sample ID: 20403240802

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/22/04 | Time: 1040

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 04/07/04 | Time: 1905

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	0.849	J	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	0.794	J	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	0.679	J	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204032408
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW511009
Contract:
Lab File ID: S5095
Lab Sample ID: 20403240802
Date Collected: 03/22/04 Time: 1040
Date Received: 03/24/04
Date Extracted: 3/25/04
Date Analyzed: 04/07/04 Time: 1905
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics deteced			

5/26/04 mic

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW521009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204032408 | Lab File ID: 2040407P/S5098

Matrix: Water | Lab Sample ID: 20403240806

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/22/04 | Time: 1230

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 04/07/04 | Time: 2025

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW521009

Lab Code: LA024 | Case No: | Contract:

SAS No.: | SDG No: 204032408 | Lab File ID: 2040407P/S5098

Matrix: Water | Lab Sample ID: 20403240806

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/22/04 | Time: 1230

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 04/07/04 | Time: 2025

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLM0 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.30	B J	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

FORM SV-1

5/11/04 mg

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204032408
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521009
Contract:
Lab File ID: S5098
Lab Sample ID: 20403240806
Date Collected: 03/22/04 Time: 1230
Date Received: 03/24/04
Date Extracted: 3/25/04
Date Analyzed: 04/07/04 Time: 2025
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics deteced			

5/26/04
PK

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW531009

Lab Code: LA024 | Case No: | Contract:

SAS No.: | SDG No: 204032408 | Lab File ID: 2040407P/S5099

Matrix: Water | Lab Sample ID: 20403240807

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/22/04 | Time: 1255

Level: (low/med) | Date Received: 03/24/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/25/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 04/07/04 | Time: 2053

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271238 | Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl) ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl) phthalate	10.0	U	0.010	10.0

FORM 1 SV-1

5/26/04 MT

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204032408
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW531009
Contract:
Lab File ID: 2040407P/S5099
Lab Sample ID: 20403240807
Date Collected: 03/22/04 Time: 1255
Date Received: 03/24/04
Date Extracted: 3/25/04
Date Analyzed: 04/07/04 Time: 2053
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV2
Prep Batch: 271238 Analytical Batch: 271976

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	~~0.005~~ 10.0	BJ	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

sluiq4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204032406
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW531009
Contract:
Lab File ID: S5099
Lab Sample ID: 20403240807
Date Collected: 03/22/04 Time: 1255
Date Received: 03/24/04
Date Extracted: 3/25/04
Date Analyzed: 04/07/04 Time: 2053
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics ceteced			

5/26/04
pm

FORM I SV-TIC

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWEB1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204032408

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403240801

Level: (low/med) | Date Collected: 03/22/04 | Time: 1345

% Moisture: | decanted: (Y/N) | Date Received: 03/24/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/26/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 1730

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271349 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/26/04

mgl

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL		Sample ID: SKSW511009	
Lab Code: LA024	Case No.:	Contract:	
Matrix: Water		SAS No:	SDG No.: 204032408
Sample wt/vol: 1000	Units: mL	Lab Sample ID: 20403240802	
Level: (low/med)		Date Collected: 03/22/04	Time: 1040
% Moisture:	decanted: (Y/N)	Date Received: 03/24/04	
GC Column: DB-608-30M	ID: .53 (mm)	Date Extracted: 3/26/04	
Concentrated Extract Volume: 1000	(µL)	Date Analyzed: 04/02/04	Time: 1158
Soil Aliquot Volume:	(µL)	Dilution Factor: 1	Analyst: HJL
Injection Volume: 1	(µL)	Prep Method:	
GPC Cleanup: (Y/N) N	pH:	Analytical Method: OLMO 4.2	
Prep Batch: 271349	Analytical Batch: 271697	Sulfur Cleanup: (Y/N) N	Instrument ID: GCS6A
CONCENTRATION UNITS: ug/L		Lab File ID: 2040331/SV6053	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	J	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	J	0.00010	0.050

5/26/04 MSC

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW521009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204032408

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403240806

Level: (low/med) | Date Collected: 03/22/04 | Time: 1230

% Moisture: | decanted: (Y/N) | Date Received: 03/24/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/26/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 1907

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: HJL

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271349 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6046

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/26/04 mt

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1009

Lab Name: GCAL Contract

Lab Code: LA024 Case No. SAS No. SDG No.: 204032408

Matrix (soil / water) Water Lab Sample ID 204032408O1

Level (low / med) Date Received 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	2.9	U	N,*	P	
7440-39-3	Barium	0.3	B	*,E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.0	B	*,E	P	J
7440-50-8	Copper	6.5	B	*	P	J
7439-89-6	Iron	37.8	B	*,E	P	J
7439-92-1	Lead	1.5	U	*	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.4	B	*,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.2	B		P	
7440-28-0	Thallium	2.5	U		P	
7440-66-6	Zinc	9.7	B	N,*	P	J
57-12-5	Cyanide	0.5	U		AS	

6/3/04 MKa

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240802

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	7.3	B	N	P	J
7440-38-2	Arsenic	50.7		N,*	P	J
7440-39-3	Barium	499		*,E	P	J
7440-41-7	Beryllium	4.9	B		P	
7440-43-9	Cadmium	5.0			P	
7440-47-3	Chromium	72.6		*,E	P	J
7440-50-8	Copper	131		*	P	J
7439-89-6	Iron	124000		*,E	P	J
7439-92-1	Lead	122		*	P	J
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	116		*,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	490		N,*	P	J
57-12-5	Cyanide	0.8	B		AS	

6/3/04 mso

Color Before: DK. BROWN Clarity Before: CLOUDY Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix (soil / water): Water Lab Sample ID: 20403240805

Level: (low / med): Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	6.7	B	N	P	J
7440-38-2	Arsenic	67.0		N,*	P	J
7440-39-3	Barium	714		*,E	P	J
7440-41-7	Beryllium	6.7			P	
7440-43-9	Cadmium	7.2			P	
7440-47-3	Chromium	102		*,E	P	J
7440-50-8	Copper	174		*	P	J
7439-89-6	Iron	173000		*,E	P	J
7439-92-1	Lead	169		*	P	J
7439-97-6	Mercury	0.3			AV	
7440-02-0	Nickel	162		*,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	679		N,*	P	J
57-12-5	Cyanide	1.1	B		AS	

6/13/04 MSe

Color Before: DK. BROWN Clarity Before: CLOUDY Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240806

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	11.1		N,*	P	J
7440-39-3	Barium	112	B	*,E	P	J
7440-41-7	Beryllium	0.7	B		P	
7440-43-9	Cadmium	0.5	B		P	
7440-47-3	Chromium	12.7		*,E	P	J
7440-50-8	Copper	22.0	B	*	P	J
7439-89-6	Iron	17800		*,E	P	J
7439-92-1	Lead	17.3		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	16.4	B	*,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	52.9		N,*	P	J
57-12-5	Cyanide	0.6	B		AS	

6/03/04
pkc

Color Before: LT. BROWN Clarity Before: CLEAR Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW531009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix (soil / water): Water Lab Sample ID: 20403240807

Level: (low / med): Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	2.9	U	N,*	P	
7440-39-3	Barium	41.7	B	*,E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.7	B	*,E	P	J
7440-50-8	Copper	3.2	B	*	P	J
7439-89-6	Iron	57.8	B	*,E	P	J
7439-92-1	Lead	1.5	J	*	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	B	*,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.6	B		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U	N,*	P	
57-12-5	Cyanide	0.5	U		AS	

6/3/04 msc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240808

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U	N	P
7440-39-3	Barium	0.4	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	U		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	5.6	B		P

R

6/3/04 MSC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511009 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No SAS No SDG No.: 204032408

Matrix (soil / water) Water Lab Sample ID: 20403240809

Level (low / med) Date Received 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U	N	P
7440-39-3	Barium	35.8	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.6	B		P
7440-50-8	Copper	4.3	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.0	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

R

6/3/04 mcs

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51DUP1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240811

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U	N	P	
7440-39-3	Barium	33.0	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.4	B		P	
7440-50-8	Copper	1.6	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.0	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U		P	

6/3/04
mse

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204032408

Matrix (soil / water): Water Lab Sample ID: 20403240812

Level (low / med): Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U	N	P
7440-39-3	Barium	36.7	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.7	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.4	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	3.4	B		P

R

6/3/04 MSa

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW531009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240813

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U	N	P
7440-39-3	Barium	40.7	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.3	B		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	U		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	4.5	B		P

R

6/3/04
mgr

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Earth Tech (Client Name)	4342	204032468	4/7/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Chimney Landfill - 1 Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Analytical Requests & Method

Lab use only:
Custody Seal used [X] yes [ ] no
Custody Seal in tact [X] yes [ ] no
Temperature °C 5

Matrix	Date	Time (2400)	Grab	Comp	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCB's	Fe+ metals	Dissolved metals	Cyanide	diss	Remarks:	Lab ID
W	3/23/04	1115		X	SKSW51MSD1009	Various	10	X	X	X	X	X	X	X	11 MSD	Refer to ck# 5	3 4
W	3/23/04	1345		X	SKSWEB1009	Various	8	X	X	X	X	X	X	X	8	Table 7	-1
W	3/23/04	1040		X	SKSW51 1009	HCl	3	X								(TCL) and	-2
W	3/23/04	1055		X	SKSW51MS 1009	HCl	3	X								Table 8	-3
W	3/23/04	1210		X	SKSW52 1009	HCl	3	X								(TAL) of	-4
W	3/23/04	1755		X	SKSW53 1009	HCl	3	X								The Final	-7
																O&M Plan	
																for the	
																list of	
																analytes	

Turn Around Time: [ ] 24-48 hrs. [ ] 3 days [ ] 1 week [X] Standard [ ] Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/23/04	
Relinquished by: (Signature) FedEx #792541688324	Received by: (Signature) Erma Lee	Date: 3/24/04	Time: 0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:
- No trip blank submitted due to bottles breaking during shipment
- Low sample volume for EQuipment Blank

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	204033408	4/7/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill - 1Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide		Diss	Remarks:	Lab ID
W	3/23/04	1040		X	SkSW51 1009	Various	7		X	X	X	X	X	X		9	Refer to	2
W	3/23/04	1055		X	SkSW51 MS 1009	Various			X	X	X	X	X	X		10	Table 7	3
																	(TCL) and	
																	Table 8	
																	(TAL) of	
																	the final	
																	O&M Plan	
																	for Thy	
																	list of	
																	analytes	

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/23/04	
Relinquished by: (Signature) FedEx #792549688324	Received by: (Signature)	Date: 3/24/04	Time: 0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, O = oil, CT = ch... tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225...

GCAL-06

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Laboratory only: Earth Tech (Client Name) | 4342 (Client #) | 7040 32408 (Workorder #) | 4/7/04 (Due Date)

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2700
Fax: 859 442-2711

Bill to:
Client: SAME
Address:
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill - 1Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Matrix*	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-Volatiles	Pesticides	PCB's	Total metals	Dissolved metals	Cyanide	TSS
W	3/22/04	1230		X	SkSwS2 1004	Various	7		X	X	X	X	X	X	12
W	3/22/04	1255		X	SkSwS3 1004	Various	7		X	X	X	X	X	X	13

Analytical Requests & Method

Lab use only:
Custody Seal used ☒ yes ☐ no
in tact ☒ yes ☐ no
Temperature °C: 3°C

Remarks: 3/24
Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of analytes

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/23/04	
Relinquished by: (Signature) FEDEX# 7925996885	Received by: (Signature)	Date: 3/24/04	Time: 0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

GCAL-CF-18

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204031909

PROJECT MANAGER: Ron Rolker

Date: May 11, 2004

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	**Bromofluorobenzene**
CC	**Continuing Calibration**
CCV	**Continuing Calibration Verification**
CCB	**Continuing Calibration Blanks**
CLP	**Contract Laboratory Program**
CRDL	**Contract Required Detection Limit**
DFTPP	**Decafluorotriphenylphosphine**
GC/MS	**Gas Chromatograph Mass Spectrometer**
IC	**Initial Calibration**
ICB	**Initial Calibration Blank**
IDL	**Instrument Detection Limit**
ICP	**Inductively Coupled Plasma**
ICS	**Interference Check Sample**
ICV	**Initial Calibration Verification**
ILM	**Inorganic Analysis Multi-Media Multi-Concentration**
INDAM	**Individual A Mixture**
INDBM	**Individual B Mixture**
mg/L	**milligrams per liter**
MS/MSD	**Matrix Spike Matrix Spike Duplicate**
OLC	**Organic Analysis Low Concentration**
OLM	**Organic Analysis Multi-Media Multi-Concentration**
%D	**Percent Difference**
% RSD	**Percent Relative Standard Deviation**
PB	**Preparation Blanks**
QC	**Quality Control**
RF	**Response Factor**
RPD	**Relative Percent Difference**
RRF	**Relative Response Factor**
SDG	**Sample Delivery Group**
SOW	**Statement of Work**
µg/L	**micrograms per liter**
US EPA	**United States Environmental Protection Agency**
VOC	**Volatile Organic Compounds**
VTSR	**Validated Time of Sample Receipt**

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190907	SKGW61DUP1009
20403190908	SKGWFB1009
20403190910	SKGW581009 (DISS)
20403190911	SKGW58DUP1009 (DISS)
20403190912	SKGW631009 (DISS)
20403190913	SKGW611009 (DISS)
20403190914	SKGW61MS1009 (DISS)
20403190915	SKGW61DUP1009 (DISS)
20403190916	SKGWFB1009 (DISS)
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009
20403220808	SKGW06R1009 (DISS)
20403220809	SKGW07R1009 (DISS)
20403220810	SKGW591009 (DISS)
20403220811	SKGW601009 (DISS)
20403220812	SKGW62A1009 (DISS)
20403220813	SKGW641009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis

7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No analytes were detected in the ICB, CCB, PB and Field blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The Relative Percent Difference (RPD) between the sample and duplicate results were within the acceptance criteria for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Selenium in the total (45%) and dissolved (73%) fractions. As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 125.8%, 146.7%, and 130.4%. The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 73.9%, 71.5%, and 68.9%. The detected Thallium and Zinc results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The percent recovery for Selenium in the last Contract Required Detection Limit (CRDL) standards was 138.5%. The Selenium results were previously qualified under Section 7-titled "Spike Sample Analysis". The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Di-n-octylphthalate and Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

B. Continuing Calibration

One CC dated 3/26/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 3/26/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 3/26/04 were within the acceptance criteria with the exception the %D for Di-n-butylphthalate and Di-n-octylphthalate. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and field blank were analyzed with this SDG. The results are summarized below.

Method Blank (0322SBLK)

Di-n-butylphthalate was detected at a concentration of 0.604 ppb in method blank 0322SBLK.

Field Blank (SKGWFB1009)

There were no analytes detected above the MDL in the field blank collected on 3/18/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGWD611009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's. GCAL also inadvertently left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's.

The "B" qualifier indicates that the analyte was detected in the associated method blank. On pages 210/212/213/214 sample SKGW07R1009 was not listed but 2 field blanks were listed while only one field blank submitted for analysis. GCAL corrected the mistake and reissued corrected pages.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403190909	SKTB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009
20403220814	TRIP BLANK

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance

12. Documentation

13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on two GC/MS system, identified as MSV0 and MSV2. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

Two IC's dated 3/21/04 and 3/23/04 were analyzed in support of the volatile sample analyses reported in the data submissions. The IC dated 3/21/04 was analyzed on instrument MSV0 and the IC dated 3/23/04 was analyzed on instrument MSV2. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 3/21/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butnaone. The RRF for the 1.0 ppb standard was below the acceptance criteria. The data validator dropped the 1.0 ppb standard for 1,2-Dibromo-3-chloropropane from the calibration curve and re-calculated the average RRF and %RSD. 1,2-Dibromo-3-chloropropane was not detected in any of the associated samples therefore data qualification was not required.

The RRF's and the average RRF for the IC dated 3/23/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R).

It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

Two CC dated 3/21/04 and 3/23/04 were analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions.

CC dated 3/21/04

The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butnaone. The Acetone and 2-Butnaone results were previously qualified under section 3A above.

CC dated 3/23/04

The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

Two laboratory volatile method blanks, storage blank, two Trip Blanks, and a Field Blank were analyzed with this SDG. The results are summarized below.

MB153850

1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected at concentrations of 0.20 ppb and 0.12 ppb respectively in the method blank analyzed on 3/21/04.

MB153988

Acetone, 1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected at concentrations of 1.5 ppb, 0.21 ppb and 0.16 ppb respectively in the method blank analyzed on 3/23/04.

Storage Blank (CLP Storage Blank)

Methylene chloride, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were detected at concentrations of 0.15 ppb, 0.096 ppb and 0.11 ppb respectively in the storage blank analyzed on 3/23/04.

Trip Blank (SKTB1009)

Methylene chloride was detected at a concentration of 0.23 ppb in the Trip Blank submitted for the sampling event that occurred on 3/18/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

Trip Blank

Acetone and Methylene chloride were detected at concentrations 3.1 ppb and 0.24 ppb respectively in the Trip Blank submitted for the sampling event that occurred on 3/16-17/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

Field Blank (SKGWFB1009)

Methylene chloride was detected at a concentration of 0.52 ppb in the Field Blank collected on 3/18/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGWD611009 was submitted for MS MSD analysis. The MS/MSD percent recoveries (60%-140%) and %RPD (<40%) between the MS MSD were within the acceptance criteria with the exception of the following:

Compound	MS	MSD	RPD
1,1-Dichloroethene	**142**	**150**	5
2-Hexanone	**58**	87	40
4-methyl-2-pentanone	67	102	**41**
Bromomethane	**151**	**156**	3
Carbon disulfide	**145**	**145**	0
Chloroethane	132	**145**	9
Chloromethane	135	**146**	8
Vinyl chloride	135	**143**	6

The results that are bolded exceeded the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS MSD data alone.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91). GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently transposed the area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. The data validator corrected the mistake by drawing arrows to indicate the correct area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204031909 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank and field blank were analyzed with this SDG. The results are summarized below.

Method Blank 154072

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/23/04

Field Blank (SKGWFB1009)

No constituents were detected above the laboratory-reporting limit in the field blank collected on 3/18/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGWD611009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of 4,4'-DDT (130%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. ***National*** *Functional Guidelines for Inorganic Data* ***Review.***

US EPA, 1999. ***National*** *Functional Guidelines for Organic Data* ***Review.***

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 04/08/2004

GCAL Report 204031909

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

CASE NARRATIVE

Client: Earth Tech **Report:** 204031909

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In analytical batch 271073, the MS MSD exhibited sporadic recovery and RPD failures. The LCS/LCSD recoveries were acceptable.

In analytical batch 271108, no MS MSD was analyzed due to insufficient sample volume. All LCS/LCSD recoveries were acceptable.

SEMI-VOLATILES MASS SPECTROMETRY

The MS/MSD recoveries for 4-Nitrophenol were above the upper control limit. All other batch QC was acceptable.

SEMI-VOLATILE GAS CHROMATOGRAPHY

In the Pesticide analysis, the recovery for DDT was above control limits in the Florisil check, however DDT was not detected in the associated samples.

METALS

In the ILM04.1 - CLP Metals analysis for prep batch 271122, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 49%.

In the ILM04.1 - CLP Metals analysis for prep batch 271124, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 0%.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 271113 is not applicable because the sample and or duplicate concentration is less than five times the reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 204031909

THIS REPORT CONTAINS 627 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20403190901	SKGW581009	Water	03/18/2004 11:48	03/19/2004 09:45
20403190902	SKGW58DUP1009	Water	03/18/2004 12:08	03/19/2004 09:45
20403190903	SKGW631009	Water	03/18/2004 14:30	03/19/2004 09:45
20403190904	SKGW611009	Water	03/18/2004 15:35	03/19/2004 09:45
20403190905	SKGW61MS1009	Water	03/18/2004 15:50	03/19/2004 09:45
20403190906	SKGW61MSD1009	Water	03/18/2004 16:10	03/19/2004 09:45
20403190907	SKGW61DUP1009	Water	03/18/2004 16:10	03/19/2004 09:45
20403190908	SKGWFB1009	Water	03/18/2004 17:02	03/19/2004 09:45
20403190909	SKTB1009	Water		03/19/2004 09:45
20403190910	SKGW581009(DISS)	Water	03/18/2004 11:48	03/19/2004 09:45
20403190911	SKGW58DUP1009(DISS)	Water	03/18/2004 12:08	03/19/2004 09:45
20403190912	SKGW631009(DISS)	Water	03/18/2004 14:30	03/19/2004 09:45
20403190913	SKGW611009(DISS)	Water	03/18/2004 15:35	03/19/2004 09:45
20403190914	SKGW61MS1009(DISS)	Water	03/18/2004 15:50	03/19/2004 09:45
20403190915	SKGW61DUP1009 (DISS)	Water	03/18/2004 16:10	03/19/2004 09:45
20403190916	SKGWFB1009 (DISS)	Water	03/18/2004 17:02	03/19/2004 09:45
20403220801	SKGW06R1009	Water	03/16/2004 14:58	03/19/2004 09:45
20403220802	SKGW07R1009	Water	03/16/2004 15:52	03/19/2004 09:45
20403220803	SKGW591009	Water	03/17/2004 10:50	03/19/2004 09:45
20403220804	SKGW601009	Water	03/17/2004 11:15	03/19/2004 09:45
20403220805	SKGW62A1009	Water	03/17/2004 11:50	03/19/2004 09:45
20403220806	SKGW641009	Water	03/17/2004 14:10	03/19/2004 09:45
20403220807	SKGW651009	Water	03/17/2004 14:40	03/19/2004 09:45
20403220808	SKGW06R1009 (DISS)	Water	03/16/2004 14:58	03/19/2004 09:45
20403220809	SKGW07R1009 (DISS)	Water	03/16/2004 15:52	03/19/2004 09:45
20403220810	SKGW591009 (DISS)	Water	03/17/2004 10:50	03/19/2004 09:45
20403220811	SKGW601009 (DISS)	Water	03/17/2004 11:15	03/19/2004 09:45
20403220812	SKGW62A1009 (DISS)	Water	03/17/2004 11:50	03/19/2004 09:45
20403220813	SKGW641009 (DISS)	Water	03/17/2004 14:10	03/19/2004 09:45
20403220814	TRIP BLANK	Water	03/17/2004 00:00	03/19/2004 00:00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW581009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV0

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20403190901

Lab File ID: 2040321/T0692

Date Collected: 03/18/04 Time: 1148

Date Received: 03/19/04

Date Analyzed: 03/21/04 Time: 1941

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0	U	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

5b/04 mcc

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW581009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403190901

Level: (low/med) Lab File ID: 2040321/T0692

% Moisture: not dec. Date Collected: 03/18/04 Time: 1148

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1941

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271073

CONCENTRATION UNITS: µg/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW581009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190901

Sample wt/vol: Units: Lab File ID: 2040321/T0692

Level: (low/med) Date Collected: 03/18/04 Time: 1148

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/21/04 Time: 1941

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: *0*

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW58DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403190902

Level: (low/med) Lab File ID: 2040321/T0688

% Moisture: not dec. Date Collected: 03/18/04 Time: 1208

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1805

Soil Extract Volume: (uL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (uL) Prep Batch: Analytical Batch: 271073

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0	U	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW58DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403190902

Level: (low/med)

Lab File ID: 2040321/T0688

% Moisture: not dec.

Date Collected: 03/18/04 Time: 1208

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV0

Date Analyzed: 03/21/04 Time: 1805

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

'E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW58DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190902

Sample wt/vol: Units: Lab File ID: 2040321/T0688

Level: (low/med) Date Collected: 03/18/04 Time: 1208

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/21/04 Time: 1805

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403190903

Level: (low/med)

Lab File ID: 2040321/T0689

% Moisture: not dec.

Date Collected: 03/18/04 Time: 1430

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV0

Date Analyzed: 03/21/04 Time: 1829

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0	U	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

5/21/04 MS

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKGW631009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403190903

Level: (low/med) Lab File ID: 2040321/T0689

% Moisture: not dec. Date Collected: 03/18/04 Time: 1430

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1829

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	[illegible]	U	0.010	1.0
108-88-3	Toluene	[illegible]	U	0.010	1.0
79-01-6	Trichloroethene	[illegible]	U	0.010	1.0
75-01-4	Vinyl chloride	[illegible]	U	0.010	1.0
1330-20-7	Xylene (total)	[illegible]	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW631009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190903

Sample wt/vol: Units: Lab File ID: 2040321/T0689

Level: (low/med) Date Collected: 03/18/04 Time: 1430

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/21/04 Time: 1829

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403190904

Level: (low/med) Lab File ID: 2040321/T0682

% Moisture: not dec. Date Collected: 03/18/04 Time: 1535

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1507

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271073

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0	U	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

FORM VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403190904

Level: (low/med)

Lab File ID: 2040321/T0682

% Moisture: not dec.

Date Collected: 03/18/04 Time: 1535

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV0

Date Analyzed: 03/21/04 Time: 1507

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW611009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190904

Sample wt/vol: Units: Lab File ID: 2040321/T0682

Level: (low/med) Date Collected: 03/18/04 Time: 1535

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/21/04 Time: 1507

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403190908

Level: (low/med)

Lab File ID: 2040321/T0690

% Moisture: not dec.

Date Collected: 03/18/04 Time: 1702

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV0

Date Analyzed: 03/21/04 Time: 1853

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0 0.52	J	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

5/21/04 mm

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403190908

Level: (low/med) Lab File ID: 2040321/T0690

% Moisture: not dec. Date Collected: 03/18/04 Time: 1702

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1853

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271073

CONCENTRATION UNITS ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWFB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190908

Sample wt/vol: Units: Lab File ID: 2040321/T0690

Level: (low/med) Date Collected: 03/18/04 Time: 1702

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 03/21/04 Time: 1853

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: *1*

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.	7446-09-5	Sulfur dioxide	1.953	197	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403190909

Level: (low/med) Lab File ID: 2040321/T0691

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV0 Date Analyzed: 03/21/04 Time: 1916

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271073

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	1.0	J	0.010	2.0	
100-42-5	Styrene	1.0	U	0.010	1.0	

5/21/04

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403190909

Level: (low/med)

Lab File ID: 2040321/T0691

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV0

Date Analyzed: 03/21/04 Time: 1916

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271073

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKTB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403190909

Sample wt/vol: Units: Lab File ID: 2040321/T0691

Level: (low/med) Date Collected: Time:

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 03/21/04 Time: 1916

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.	7446-09-5	Sulfur dioxide	3.78	8.77	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220801

Level: (low/med)

Lab File ID: 2040323/T2558

% Moisture: not dec.

Date Collected: 03/16/04 Time: 1458

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1326

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	~~2.0~~ 1.6	J	0.010	2.0	LL
100-42-5	Styrene	1.0	U	0.010	1.0	

5/12/04 msv

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKGW06R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403220801

Level: (low/med) Lab File ID: 2040323/T2558

% Moisture: not dec. Date Collected: 03/16/04 Time: 1458

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/19/04

Instrument ID: MSV2 Date Analyzed: 03/23/04 Time: 1326

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 271108

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW06R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220801

Sample wt/vol: Units: Lab File ID: 2040321/T2558

Level: (low/med) Date Collected: 03/16/04 Time: 1458

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1327

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: *0*

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKGW07R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403220802

Level: (low/med) Lab File ID: 2040323/T2559

% Moisture: not dec. Date Collected: 03/16/04 Time: 1552

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV2 Date Analyzed: 03/23/04 Time: 1351

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271108

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0 0.9	J	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

FORM I VOA

5/12/04 MSK

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220802

Level: (low/med)

Lab File ID: 2040323/T2559

% Moisture: not dec.

Date Collected: 03/16/04 Time: 1552

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1351

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW07R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220802

Sample wt/vol: Units: Lab File ID: 2040323/T2559

Level: (low/med) Date Collected: 03/16/04 Time: 1552

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1351

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220803

Level: (low/med)

Lab File ID: 2040323/T2561

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1440

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	~~2.0~~ 0.20	J	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

5/12/04 mso

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKGW591009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220803

Level: (low/med)

Lab File ID: 2040323/T2561

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1440

Soil Extract Volume: (uL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (uL)

Prep Batch: Analytical Batch: 271108

CONCENTRATION UNITS ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW591009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220803

Sample wt/vol: Units: Lab File ID: 2040323/T2561

Level: (low/med) Date Collected: 03/17/04 Time: 1050

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1440

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: *0*

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW601009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220804

Level: (low/med)

Lab File ID: 2040323/T2562

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1115

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1505

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	~~5.0~~ 2.2	~~B~~	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	~~1.0~~ 0.18	J	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

3/12/04 MS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW601009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220804

Level: (low/med)

Lab File ID: 2040323/T2562

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1115

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1505

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW601009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220804

Sample wt/vol: Units: Lab File ID: 2040323/T2562

Level: (low/med) Date Collected: 03/17/04 Time: 1115

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1505

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220805

Level: (low/med)

Lab File ID: 2040323/T2563

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1150

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1530

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	~~2.0~~ 0.10	J	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

5/12/04 MR

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220805

Level: (low/med)

Lab File ID: 2040323/T2563

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1150

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1530

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62A1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220805

Sample wt/vol: Units: Lab File ID: 2040323/T2563

Level: (low/med) Date Collected: 03/17/04 Time: 1150

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1530

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403220806

Level: (low/med) Lab File ID: 2040323/T2564

% Moisture: not dec. Date Collected: 03/17/04 Time: 1410

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV2 Date Analyzed: 03/23/04 Time: 1554

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 271108

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	2.0 ~~1.0~~	J	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

5/12/04 MFL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220806

Level: (low/med)

Lab File ID: 2040323/T2564

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1410

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1554

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW641009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220806

Sample wt/vol: Units: Lab File ID: 2040323/T2564

Level: (low/med) Date Collected: 03/17/04 Time: 1410

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1554

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220807

Level: (low/med)

Lab File ID: 2040323/T2565

% Moisture: not dec.

Date Collected: 03/17/04 Time: 1440

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1619

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	~~2.0~~ 0.21	J	0.010	2.0	u
100-42-5	Styrene	1.0	U	0.010	1.0	

5/12/04 mc

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403220807

Level: (low/med) Lab File ID: 2040323/T2565

% Moisture: not dec. Date Collected: 03/17/04 Time: 1440

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/19/04

Instrument ID: MSV2 Date Analyzed: 03/23/04 Time: 1619

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 271108

CONCENTRATION UNITS ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW651009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220807

Sample wt/vol: Units: Lab File ID: 2040323/T2565

Level: (low/med) Date Collected: 03/17/04 Time: 1440

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .25 (mm) Date Analyzed: 03/23/04 Time: 1619

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403220814

Level: (low/med)

Lab File ID: 2040323/T2560

% Moisture: not dec.

Date Collected: 03/17/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/19/04

Instrument ID: MSV2

Date Analyzed: 03/23/04 Time: 1416

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	3.1	J	0.010	5.0	J
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	
75-09-2	Methylene chloride	1.0 DX4	J	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

5/27/04 MM

000106

CORRECTED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20403220814

Lab File ID: 2040323/T2560

Date Collected: 03/17/04 Time: 0000

Date Received: 03/19/04

Date Analyzed: 03/23/04 Time: 1416

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 271108

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: Water Lab Sample ID: 20403220814

Sample wt/vol: Units: Lab File ID: 2040323/T2560

Level: (low/med) Date Collected: 03/17/04 Time: 0000

% Moisture: not dec. Date Received: 03/19/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 03/23/04 Time: 1416

Instrument ID: MSV2 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.	7446-09-5	Sulfur dioxide	1.412	1.92	

FORM VOA-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW581009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5023

Matrix: Water | Lab Sample ID: 20403190901

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1148

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1612

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/17/04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW581009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5023

Matrix: Water | Lab Sample ID: 20403190901

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1148

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 | (mm) | Date Analyzed: 03/26/04 | Time: 1612

Concentrated Extract Volume: 1000 | (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 | (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 mis

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW581009
Contract:
Lab File ID: S5023
Lab Sample ID: 20403190901
Date Collected: 03/18/04 Time: 1148
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1612
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

5/17/04 MSA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW58DUP1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5024

Matrix: Water | Lab Sample ID: 20403190902

Sample wt/vol: 1000 Units mL | Date Collected: 03/18/04 Time: 1208

Level: (low/med) | Date Received: 03/19/04

% Moisture: | Decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M ID: .25 (mm) | Date Analyzed: 03/26/04 Time: 1640

Concentrated Extract Volume: 1000 (uL) | Dilution Factor: 1 Analyst: JAR3

Injection Volume: 1.0 (uL) | Prep Method:

GPC Cleanup: (Y/N) N pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS ug/L | Prep Batch: 271164 Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/17/04 MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW58DUP1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5024

Matrix: Water | Lab Sample ID: 20403190902

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1208

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1640

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	*Carbazole*	*10.0*	*U*	*0.010*	*10.0*	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	~~0.858~~ 10.0	~~B~~ J	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 MR

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: 53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW58DUP1009
Contract:
Lab File ID: S5024
Lab Sample ID: 20403190902
Date Collected: 03/18/04 Time: 1208
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1640
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

5/17/07
MS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW631009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5025

Matrix: Water | Lab Sample ID: 20403190903

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1430

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1707

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW631009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5025

Matrix: Water | Lab Sample ID: 20403190903

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1430

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1707

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	0.61	J	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631009
Contract:
Lab File ID: S5025
Lab Sample ID: 20403190903
Date Collected: 03/18/04 Time: 1430
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1707
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

5/17/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW611009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5026

Matrix: Water | Lab Sample ID: 20403190904

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1535

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1735

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl) ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl) phthalate	10.0	U	0.010	10.0

51

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW611009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5026

Matrix: Water | Lab Sample ID: 20403190904

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1535

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1735

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/17/04 mc

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611009
Contract:
Lab File ID: S5026
Lab Sample ID: 20403190904
Date Collected: 03/18/04 Time: 1535
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1735
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

slight pink

FORM SV-TIC

00021

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGWFB1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5029

Matrix: Water | Lab Sample ID: 20403190908

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1702

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1855

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

3/19/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGWFB1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5029

Matrix: Water | Lab Sample ID: 20403190908

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/18/04 | Time: 1702

Level: (low/med) | Date Received: 03/19/04

% Moisture: | Decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1855

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWFB1009
Contract:
Lab File ID: S5029
Lab Sample ID: 20403190908
Date Collected: 03/18/04 Time: 1702
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1855
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

5/17/04
MA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW06R1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5030

Matrix: Water | Lab Sample ID: 20403220801

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/16/04 | Time: 1458

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1922

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol/p-Cresol	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/17/04 AR

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW06R1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5030

Matrix: Water | Lab Sample ID: 20403220801

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/16/04 | Time: 1458

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1922

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 MSK

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1009
Contract:
Lab File ID: S5030
Lab Sample ID: 20403220801
Date Collected: 03/16/04 Time: 1458
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1922
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

5/17/04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW07R1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5031

Matrix: Water | Lab Sample ID: 20403220802

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/16/04 | Time: 1552

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1950

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/17/04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW07R1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5031

Matrix: Water | Lab Sample ID: 20403220802

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/16/04 | Time: 1552

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 1950

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1009
Contract:
Lab File ID: S5031
Lab Sample ID: 20403220802
Date Collected: 03/16/04 Time: 1552
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 1950
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

5/17/04
mh

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS ug/L

Sample ID: SKGW591009
Contract:
Lab File ID: 2040326/S5032
Lab Sample ID: 20403220803
Date Collected: 03/17/04 Time: 1050
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2018
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV2
Prep Batch: 271164 Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol/p-Cresol	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

3/26/04 MS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW591009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5032

Matrix: Water | Lab Sample ID: 20403220803

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1050

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 2018

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.016~~	B J	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 MSA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591009
Contract
Lab File ID: S5032
Lab Sample ID: 20403220803
Date Collected: 03/17/04 Time: 1050
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2018
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : *0*

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

5/17/04
MSL

FORM SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW601009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5033

Matrix: Water | Lab Sample ID: 20403220804

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1115

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 2045

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/19/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW601009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5033

Matrix: Water | Lab Sample ID: 20403220804

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1115

Level: (low/med) | Date Received: 03/19/04

% Moisture: | Decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: 25 (mm) | Date Analyzed: 03/26/04 | Time: 2045

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	[illegible]	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	[illegible]	U	0.010	10.0	
86-74-8	Carbazole	[illegible]	U	0.010	10.0	
218-01-9	Chrysene	[illegible]	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	[illegible]	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	[illegible]	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	[illegible]	U	0.010	10.0	
132-64-9	Dibenzofuran	[illegible]	U	0.010	10.0	
84-66-2	Diethylphthalate	[illegible]	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	[illegible]	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	[illegible]	U	0.010	10.0	
206-44-0	Fluoranthene	[illegible]	U	0.010	10.0	
86-73-7	Fluorene	[illegible]	U	0.010	10.0	
118-74-1	Hexachlorobenzene	[illegible]	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	[illegible]	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	[illegible]	U	0.010	10.0	
67-72-1	Hexachloroethane	[illegible]	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	[illegible]	U	0.010	10.0	
78-59-1	Isophorone	[illegible]	U	0.010	10.0	
91-20-3	Naphthalene	[illegible]	U	0.010	10.0	
100-01-6	4-Nitroaniline	[illegible]	U	0.010	25.0	
98-95-3	Nitrobenzene	[illegible]	U	0.010	10.0	
100-02-7	4-Nitrophenol	[illegible]	U	0.010	25.0	
87-86-5	Pentachlorophenol	[illegible]	U	0.010	25.0	
85-01-8	Phenanthrene	[illegible]	U	0.010	10.0	
108-95-2	Phenol	[illegible]	U	0.010	10.0	
129-00-0	Pyrene	[illegible]	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	[illegible]	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	[illegible]	U	0.010	10.0	
95-48-7	o-Cresol	[illegible]	U	0.010	10.0	

5/13

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW601009
Contract:
Lab File ID: S5033
Lab Sample ID: 20403220804
Date Collected: 03/17/04 Time: 1115
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2045
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

5/13/04
MK

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 **Case No.:**
SAS No.: **SDG No.:** 2040319C9
Matrix: Water
Sample wt/vol: 1000 **Units** mL
Level: (low/med)
% Moisture: **decanted: (Y/N)**
GC Column: DB-5MS-30M **ID:** .25 (mm)
Concentrated Extract Volume 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N **pH:**

CONCENTRATION UNITS ug/L

Sample ID: SKGW62A1009
Contract:
Lab File ID: 2040326/S5034
Lab Sample ID: 20403220805
Date Collected: 03/17/04 **Time:** 1150
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 **Time:** 2112
Dilution Factor: 1 **Analyst:** JAR3
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV2
Prep Batch: 271164 **Analytical Batch:** 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl) phthalate	10.0	U	0.010	10.0

slh/5/4
MS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW62A1009
Contract:
Lab File ID: 2040326/S5034
Lab Sample ID: 20403220805
Date Collected: 03/17/04 Time: 1150
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2112
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV2
Prep Batch: 271164 Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

3/13/04 MSL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1009
Contract:
Lab File ID: S5034
Lab Sample ID: 20403220805
Date Collected: 03/17/04 Time: 1150
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2112
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 0

CONCENTRATION UNITS

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*
1.		No tics detected			

3/22/04
mm

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW641009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5035

Matrix: Water | Lab Sample ID: 20403220806

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1410

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 2138

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

slightly

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW641009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5035

Matrix: Water | Lab Sample ID: 20403220806

Sample wt/vol: 1000 Units mL | Date Collected: 03/17/04 Time: 1410

Level: (low/med) | Date Received: 03/19/04

% Moisture: decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M ID: .25 (mm) | Date Analyzed: 03/26/04 Time: 2138

Concentrated Extract Volume 1000 (µL) | Dilution Factor: 1 Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 MR

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641009
Contract:
Lab File ID: S5035
Lab Sample ID: 20403220806
Date Collected: 03/17/04 Time: 1410
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2206
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	***COMPOUND***	***RT***	***EST. CONC.***	***Q***
1.		No tics detected			

5/17/04
MS

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW651009

Lab Code: LA024 | Case No. | Contract

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5036

Matrix: Water | Lab Sample ID: 20403220807

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1440

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 2206

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW651009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204031909 | Lab File ID: 2040326/S5036

Matrix: Water | Lab Sample ID: 20403220807

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/17/04 | Time: 1440

Level: (low/med) | Date Received: 03/19/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/22/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/26/04 | Time: 2206

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: JAR3

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 271164 | Analytical Batch: 271781

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.511~~	B J	0.010	10.0	UJ
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/13/04 MSE

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204031909
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW651009
Contract:
Lab File ID: S5036
Lab Sample ID: 20403220807
Date Collected: 03/17/04 Time: 1440
Date Received: 03/19/04
Date Extracted: 3/22/04
Date Analyzed: 03/26/04 Time: 2206
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 0

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

3/29/04
mk

FORM I SV-TIC

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW581009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403190901

Level: (low/med) | Date Collected: 03/18/04 | Time: 1148

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0502

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6024

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04 mpc

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW58DUP1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403190902

Level: (low/med) | Date Collected: 03/18/04 | Time: 1208

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0530

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6025

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW631009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403190903

Level: (low/med) | Date Collected: 03/18/04 | Time: 1430

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0558

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6026

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	[illegible]	0.050	U	0.00010	0.050
1024-57-3	[illegible]	0.050	U	0.00010	0.050
72-43-5	[illegible]	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04 MSC

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW611009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403190904

Level: (low/med) | Date Collected: 03/18/04 | Time: 1535

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0627

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLM0 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6027

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04 MSL

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGWFB1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403190908

Level: (low/med) | Date Collected: 03/18/04 | Time: 1702

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | *Date Analyzed:* 04/01/04 | Time: 0916

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: *ug/L* | Lab File ID: 2040331/SV6033

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04 MC

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW06R1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220801

Level: (low/med) | Date Collected: 03/16/04 | Time: 1458

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0405

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6022

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

4/2/04
MSL

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW07R1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220802

Level: (low/med) | Date Collected: 03/16/04 | Time: 1552

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0434

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6023

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

3/24/04 mse

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW591009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220803

Level: (low/med) | Date Collected: 03/17/04 | Time: 1050

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 0944

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6034

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW601009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220804

Level: (low/med) | Date Collected: 03/17/04 | Time: 1115

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 1013

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6035

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin [illegible]	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

5/24/04 MSL

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW62A1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220805

Level: (low/med) | Date Collected: 03/17/04 | Time: 1150

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 1041

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLM0 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6036

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW641009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204031909

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403220806

Level: (low/med) | Date Collected: 03/17/04 | Time: 1410

% Moisture: | decanted: (Y/N) | Date Received: 03/19/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 04/01/04 | Time: 1109

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 271129 | Analytical Batch: 271697 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040331/SV6037

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

4/24/04 MKR

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190901

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	5.7	B		P	
7440-38-2	Arsenic	11.5			P	
7440-39-3	Barium	284			P	
7440-41-7	Beryllium	1.0	B		P	
7440-43-9	Cadmium	1.5	B		P	
7440-47-3	Chromium	28.2			P	
7440-50-8	Copper	46.7			P	
7439-89-6	Iron	32700			P	
7439-92-1	Lead	19.5			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	32.1	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	4.1	B		P	J
7440-66-6	Zinc	81.0			P	J
57-12-5	Cyanide	0.5	U		AS	

5/24/04 msw

Color Before: LT. BROWN Clarity Before: CLEAR Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190902

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	B		P	
7440-38-2	Arsenic	15.1			P	
7440-39-3	Barium	326			P	
7440-41-7	Beryllium	1.3	B		P	
7440-43-9	Cadmium	1.9	B		P	
7440-47-3	Chromium	41.8			P	
7440-50-8	Copper	55.9			P	
7439-89-6	Iron	48400			P	
7439-92-1	Lead	27.2			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	46.4			P	
7782-49-2	Selenium	4.4	U	N	P	WJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	125			P	I
57-12-5	Cyanide	0.5	U		AS	

Color Before: LT. BROWN Clarity Before: CLEAR Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water): Water Lab Sample ID: 20403190903

Level (low / med): Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	5.7	B		P	
7440-38-2	Arsenic	17.1			P	
7440-39-3	Barium	186	B		P	
7440-41-7	Beryllium	2.1	B		P	
7440-43-9	Cadmium	2.5	B		P	
7440-47-3	Chromium	38.2			P	
7440-50-8	Copper	69.2			P	
7439-89-6	Iron	63200			P	
7439-92-1	Lead	41.0			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	58.1			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	8.5	B		P	J
7440-66-6	Zinc	176			P	J
57-12-5	Cyanide	0.5	U		AS	

5/24/04 mc

Color Before: LT. BROWN Clarity Before: CLEAR Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190904

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.8	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	44.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-47-3	Chromium	1.9	B		P	
7440-50-8	Copper	22.2	B		P	
7439-89-6	Iron	2430			P	
7439-92-1	Lead	22.1			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.3	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	7.3	B		P	J
57-12-5	Cyanide	0.5	U		AS	

5/28/04 ms

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORL[redacted] Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water): Water Lab Sample ID: 20403190907

Level (low / med): Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	5.5	B		P	
7440-38-2	Arsenic	3.7	B		P	
7440-39-3	Barium	45.4	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-47-3	Chromium	1.6	B		P	
7440-50-8	Copper	18.6	B		P	
7439-89-6	Iron	2490			P	
7439-92-1	Lead	22.5			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.7	B		P	
7782-49-2	Selenium	4.4	U	N	P	US
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	7.0	B		P	J
57-12-5	Cyanide	0.8	B		AS	

5/23/04 mjs

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190908

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.4	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.9	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	4.6	B		P	J
7440-66-6	Zinc	3.2	B		P	J
57-12-5	Cyanide	0.5	U		AS	

5/24/04 mm

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581009(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water) Water Lab Sample ID: 20403190910

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.1	B		P
7440-39-3	Barium	156	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.5	B		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	209			P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.6	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

UJ

4/28/04 mc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58DUP1009(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190911

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	164	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.3	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	201			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.0	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U		P	

5/25/04 mr

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631009(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190912

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.8	B		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	20.1	B		P
7440-41-7	Beryllium	0.2	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.8	B		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	21.4	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.2	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	4.6	B		P
7440-66-6	Zinc	0.6	U		P

US

5/25/04 mk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611009(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190913

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.5	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	39.4	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-47-3	Chromium	1.1	B		P	
7440-50-8	Copper	8.0	B		P	
7439-89-6	Iron	187			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U		P	

5/28/04 mc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water) Water Lab Sample ID: 20403190915

Level (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	38.9	B		P
7440-41-7	Beryllium	0.1	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.3	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	195			P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.6	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	5.6	B		P
7440-66-6	Zinc	0.6	U		P

uJ

J

5/25/04 pvk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403190916

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7782-49-2	Selenium	4.4	U	N	P	U5
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	7.5	B		P	3
7440-66-6	Zinc	0.6	U		P	

slr 5/28/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220801

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	5.5	B		P
7440-38-2	Arsenic	12.4			P
7440-39-3	Barium	440			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	1.0	B		P
7440-47-3	Chromium	16.9			P
7440-50-8	Copper	39.3			P
7439-89-6	Iron	25300			P
7439-92-1	Lead	23.9			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	23.4	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	72.9			P
57-12-5	Cyanide	1.0	B		AS

UJ

5/28/04

Color Before: LT.YELLOW Clarity Before CLEAR Texture:

Color After: LT.YELLOW Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220802

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.6	B		P
7440-38-2	Arsenic	6.9	B		P
7440-39-3	Barium	484			P
7440-41-7	Beryllium	0.8	B		P
7440-43-9	Cadmium	0.9	B		P
7440-47-3	Chromium	12.9			P
7440-50-8	Copper	35.5			P
7439-89-6	Iron	20200			P
7439-92-1	Lead	9.2			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	17.8	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	51.2			P
57-12-5	Cyanide	1.5	B		AS

US

5/25/04 mc

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591009

Lab Name: GCAL Contract

Lab Code: LA024 Case No. SAS No. SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID 20403220803

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.7	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	55.0	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	5.5	B		P	
7440-50-8	Copper	10.1	B		P	
7439-89-6	Iron	3020			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	6.7	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	7.9	B		P	J
57-12-5	Cyanide	1.0	B		AS	

5/25/04 mr

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220804

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	9.7	B		P	
7440-38-2	Arsenic	17.0			P	
7440-39-3	Barium	129	B		P	
7440-41-7	Beryllium	2.5	B		P	
7440-43-9	Cadmium	2.8	B		P	
7440-47-3	Chromium	59.6			P	
7440-50-8	Copper	54.5			P	
7439-89-6	Iron	74200			P	
7439-92-1	Lead	40.4			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	67.3			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	11.0			P	J
7440-66-6	Zinc	180			P	

5/28/04 mh

Color Before: DK. BROWN Clarity Before: CLEAR Texture:

Color After: DK. BROWN Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water) Water Lab Sample ID: 20403220805

Level: (low / med) Date Received 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.1	B		P
7440-38-2	Arsenic	8.3	B		P
7440-39-3	Barium	361			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	1.6	B		P
7440-47-3	Chromium	29.6			P
7440-50-8	Copper	42.7			P
7439-89-6	Iron	35000			P
7439-92-1	Lead	39.5			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	35.4	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	6.9	B		P
7440-66-6	Zinc	101			P
57-12-5	Cyanide	1.0	B		AS

U5

J

5/25/04

Color Before: LT. BROWN Clarity Before CLEAR Texture:

Color After: LT. BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220806

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.9	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	37.1	B		P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	7.0	B		P	
7440-50-8	Copper	11.3	B		P	
7439-89-6	Iron	7520			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	16.4	B		P	
7782-49-2	Selenium	4.4	U	N	P	US
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	13.6	B		P	3
57-12-5	Cyanide	1.3	B		AS	

5/25/04 MC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 204031909

Matrix (soil / water): Water Lab Sample ID: 20403220808

Level (low / med): Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	J		P
7440-39-3	Barium	266			P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.2	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	22.0	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.7	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

UJ

5/28/04 mw

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220809

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	113	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.1	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	32.9	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	WS
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water) Water Lab Sample ID: 20403220810

Level (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	21.8	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.8	B		P	
7440-50-8	Copper	2.1	B		P	
7439-89-6	Iron	28.8	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.6	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	3.1	B		P	J
7440-66-6	Zinc	3.1	B		P	

4/1/04 mr

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220811

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	5.1	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	27.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	2.6	B		P	
7440-50-8	Copper	4.0	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.4	B		P	
7782-49-2	Selenium	4.4	U	N	P	US
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	0.6	U		P	

4/23/04 pm

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix (soil / water) Water Lab Sample ID: 20403220812

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	111	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	2.1	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.8	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

US

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Matrix: (soil / water) Water Lab Sample ID: 20403220813

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	28.3	B		P
7440-41-7	Beryllium	0.1	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.7	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	7.8	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

US

5/25/04 mc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUS[illegible]Y RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	20403190 9	4/2/04

Report to:
Client: Earth Tech
Address: [illegible]
Wilder, KY 41076
Contact: Tod Higgins
Phone: [illegible] 412 [illegible]
Fax: [illegible] 412 2311

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

P.O. Number: [illegible]
Project Name/Number: [illegible] Landfill [illegible] 2004
Sampled By: Tod Higgins / Chris [illegible]

Analytical Requests & Method

Matrix*	Date	Time (2400)	Sample Description	Preservatives	No. Containers	Volatiles	[illegible]	[illegible]	PCB	Dissolved Metals	Total Metals	Cyanide	Remarks	Lab ID
W	3/17/04	1145	[illegible]GWS1009	HCL	3	X							Refer to	3 [illegible] -1
↓	↓	1210	SKGWSDup1009	↓	↓	↓							Table 7 (TCL)	2
		1430	SKGWG3 1009										[illegible] Table [illegible]	3
		1515	SKGWG1 1009										(TAL) [illegible]	4
		1530	SKGWG1MS 1009										[illegible]	5
		1610	SKGWG1MSD 1009									MSD - 6	Plus [illegible]	7
		1712	SKGWFB1009	[illegible]	10		X	X	X	X	X	X	diss - 16	8
			SKTB1009	HCL	3								analytes	9

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tod Higgins	FED EX	3/18/04	
FedEx # 8225 8400 1696	[signature]	3/19/04	0945

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	204031409	4/2/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Walnut, CA 91789
Contact: Pat Higgins
Phone: 909 444-2300
Fax: 909 444-7111

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54250
Project Name/Number: ~~54260~~ Skinner Landfill 19th. 2004
Sampled By: Pat Higgins / Chris Lowen

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-Volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide					Lab ID	Remarks
																		4 DAYS		
W	3/18/04	1145		X	SH6WSE 1004	Various	7		X	X	X	X	X	X				10	3/19 - 1	Refer to Table 1 (TCL) and Table 2 (TAL) of the Final QAPP Plan for list of analytes
W	3/18/04	1205		X	SH6WSE Dup 1004	Various	7		X	X	X	X	X	X				11	2	

Lab use only:
Custody Seal used ☒ yes ☐ no
in tact ☒ yes ☐ no
Temperature °C 3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/18/04	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx #842584001616		3/19/04	0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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WHITE CLIENT FINAL REPORT — CANARY LABORATORY — PINK CLIENT

GCAL-06 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUS[illegible]Y RECORD

Lab use only: Earth Tech (Client Name) | 4342 (Client #) | 204031909 (Workorder #) | 4/6/04 (Due Date)

Report to:
Client: Earth Tech
Address: [illegible]
[illegible]
Contact: [illegible]
Phone: [illegible] 442-2700
Fax: [illegible] 442-2811

Bill to:
Client:
Address: [illegible]
Contact:
Phone:
Fax:

P.O. Number: 54290
Project Name/Number: Shinner Landfill 1Qtr. 2004
Sampled By: [illegible]

Analytical Requests & Method: Volatiles, Semi-Volatiles, Pesticides, PCBs, Total Metals, Dissolved Metals, Cyanide, Diss.

Matrix	Date	Time (2400)			Sample Description	Preservatives	No. Containers	Volatiles	Semi-Volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide	Diss.	Lab ID
W	3/17/04	1430		X	SHGW[illegible]1009	Various	7		X	X	X	X	X	X	12	-3
W	3/17/04	1610		X	SHGW[illegible]D1009	Various	7		X	X	X	X	X	X	15	-4

Lab use only:
Custody Seal used ☒ yes ☐ no
in tact ☒ yes ☐ no
Temperature °C 3

Remarks: Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of analytes

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FED EX	3/18/04	
FedEx # 8[illegible]258400[illegible]	[signature]	3/19/04	0945

Note:

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GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	204031909	4/2/04

Report to:
Client: Earth Tech
Address: 200 W. Court
Willow, KY 42086
Contact: Pat Higgins
Phone: 731 442-2306
Fax: 859 442-7311

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54226
Project Name/Number: Skinner Landfill | Qtr. 2004
Sampled By: Pat Higgins / Chris Lewis

Analytical Requests & Method: Volatiles; Semi-volatiles; Pesticides; PCBs; Total metals; Dissolved metals; Cyanide; diss

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Remarks:	Lab ID
W	3/18/04	1535		X	SkLnW61100G	Various	7	120 hr to	4
W	3/19/04	1550		X	SkLnW61MS100G	Various	7	Table 7 (TCL)	5
								and Table 8	
								(TAL) of the	
								Final O&M	
								Plan for the	
								list of	
								analytes	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FED EX	3/18/04	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx #842584001696		3/19/04	0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	~~3040322-08~~ 3040319-07 HC	4/2/04

Report to:

Client: Earth Tech
Address: 202 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 954 442-2355
Fax: 954 442-2711

Bill to:

Client:
Address:
Contact:
Phone:
Fax:

P.O. Number: 54200

Project Name/Number: Shinnar Landfill 10 Yr. 2004

Sampled By: P Higgins/L. Cox

Matrix*	Date	Time (2400)	Grab	Comp	Sample Description	Preservatives	No Containers	Analytical Requests & Method: Semi-Volatiles (8270C)	Pesticides (8081A)	PCBs (8082)	Silica Gel Cleanup
W	3/14/04	~~1458~~ 1458		X	SHLWOGR 1004	HCL	3	X			
W	3/16/04	1552		X	SHLW07R 1004	HCL	3	X			
W	3/17/04	1000		X	SHLW54 1004	HCL	3	X			
W	3/17/04	1115		X	SHLW60 1004	HCL	3	X			
W	3/17/04	1154		X	SHLW62A 1004	HCL	3	X			
W	3/17/04	1414		X	SLLW64 1004	Various	5	X	X	X	X
W	3/17/04	1440		X	SHLW65 1004	Various	4	X	~~X~~ OR 8mm		
W	3/18/04	—			Trip Blank						

Lab use only:

Custody Seal: used ~~yes~~ no; in tact ~~yes~~ no
Temperature °C: 4

Remarks:

Refer to Table 7 (TCL) and Table 8 (TAL) in the Final O&M Plan for The list of analytes

3 ~~4~~
1
2
3
4
5
6
7
14

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FED EX	3/17/04	
Relinquished by: (Signature) FedEx# 812584001163	Received by: (Signature)	Date: 3/19/04	Time: 0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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CHAIN OF CUSTODY RECORD

2040319094 thru C

Lab use only	Client #	Workorder #	Due Date
Earth Tech	4342	~~2040322~~ 2040322 08	4/2/04
Client Name			

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, Ky 41076
Contact: Pat Higgins
Phone: 859-442-2700
Fax: 859-442-2511

Bill to:
Client:
Address:
Contact: SAME
Phone:
Fax:

P.O. Number: 54200
Project Name/Number: Shiner Landfill - 1 Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi Volatiles	Pesticides PCBs	Total Metals	Dissolved Metals	Cyanide	1668	Lab ID	Remarks:
W	3/16/04	~~1445~~ 1458	Comp	X	SHGW06R1004	Various	7		X	X	X	X	X	X	8	1	Refer to Table 7 and Table 8 TLI : TAL, of Final O&M Plan for analyte list
W	3/16/04	~~1550~~ 1550	Comp	X	SHGW07R1004	Various	7		X	X	X	X	X	X	9	2	

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/17/04	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx#842594001163		3/19/04	0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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GCAL-06 1/98

042000

GCAL
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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

Chain of Cus[...]y Record

Lab use only: Earth Tech — Client Name
4342 — Client #
~~20403228~~ 20405[...] — Workorder #
4/2/04 — Due Date

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

Bill to:
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54240
Project Name/Number: Skinner Landfill - 1Q 2004
Sampled By: Pat Higgins / Chris Cox

Analytical Requests & Method: Volatiles, Semi-Volatiles, Pesticides, PCBs, total metals, Dissolved metals, Cyanide

Lab use only: Custody Seal used ☒ yes ☐ no; intact ☒ yes ☐ no; Temperature °C 4

Matrix	Date	Time (2400)			Sample Description	Preservatives	No. Containers	Volatiles	Semi-Volatiles	Pesticides	PCBs	total metals	Dissolved metals	Cyanide			Lab ID
W	3/17/04	1054		X	SKGW59 100G	Various	7	X	X	X	X	X	X	X	10		3
W	3/17/04	1151		X	SKGW60 100G	Various	6	X	X	X	X	X	X		11		4

Remarks: Refer to Table 7 and Table 8, TCL and TAL, of Final O&M Plan for analyte list

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/17/04	
FedEx # 8425 8400 1663	[signature]	3/19/04	0945

Note: SKGW60 100G has low sample volume for Dissolved metals

By submitting these samples, you agree to the terms and

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CHAIN OF CUSTODY RECORD

304031409

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	~~304052208~~	4/2/04

Report to:
Client: Earth Tech
Address: 207 Vine Street
Wilder, KY 41076
Contact: PJ Higgins
Phone: 859 442-2300
Fax: 859 442-2311

Bill to:
Client:
Address:
Contact: SAME
Phone:
Fax:

P.O. Number: 54290
~~Project Name/Number~~: Stanley Lock 11 - 1 Qtr. 2004

Sampled By: Pat Higgins / Chris Cox

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-Volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide				Lab ID
W	3/17/04	1150		X	SLGW62A 1009	Various	7		X	X	X	X	X	X			12	5
W	3/17/04	1410		X	SLGW64 1009	Various	5		X	X	X	X	X	X			13	6
W	3/17/04	1440		X	SLGW65 1009	Various	6		~~X~~	~~X~~	~~X~~	X	X	X	Dup sample received			7
													No					

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C

Remarks:

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	3/17/04	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx#849578001663		3/19/04	0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: SLGW62A - low sample volume for cyanide

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

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SOP-06 11/98

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204030804

PROJECT MANAGER: Ron Rolker

Date: May 6, 2004

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-05	SKSWD03DUP1009
204030804-06	SKSWDEB1009
204030804-08	SKSWD031009 (DISS)
204030804-09	SKSWD03D1009 (DISS)
204030804-10	SKSWD03MS1009 (DISS)
204030804-11	SKSWD03DUP1009 (DISS)
204030804-12	SKSWDEB1009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, PB, Equipment blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The Relative Percent Difference (RPD) between the sample and duplicate results were within the acceptance criteria for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSWD031009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Selenium in the total (0%) and dissolved (50%) fractions. As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interferences exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Copper in the Contract Required Detection Limit (CRDL) standards were 63.0, 62.9%, and 69.1%. The detected Copper results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 62.4 and 64.2%. The Selenium results were previously qualified under Section 7 titled "Spike Sample Analysis". The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

B. Continuing Calibration

One CC dated 3/19/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 3/19/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 3/19/04 were within the acceptance criteria with the exception the %D for Naphthalene. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and equipment bland were analyzed with this SDG. The results are summarized below.

Method Blank (0308SBLK)

There were not target analytes detected in method blank 0308SBLK.

Equipment Blank (SKSWDEB1009)

There were not target analytes detected in method blank SKSWDEB1009 collected on 3/2/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSWD031009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009
204030804-07	Trip Blank

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

All samples were analyzed on a single GC/MS system, identified as MSV2. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/13/04 was analyzed on Instrument MSV2 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards was present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 3/13/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R).

B. Continuing Calibration

One CC dated 3/13/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

One laboratory volatile method blank, storage blank, Trip Blank, and an Equipment Blank were analyzed with this SDG. The results are summarized below.

V2BLK01 (MB151783)

Methylene chloride, Chloroform and 1,3-Dichlorobenzene were detected at concentrations of 0.12 ppb, 0.38 ppb, and 0.034 ppb respectively in the method blank analyzed on 3/13/04.

Storage Blank (VHBLK01)

Methylene chloride (0.15 ppb) and 1,4-Dichlorobenzene (0.21 ppb) were detected in the storage blank analyzed on 3/13/04.

Trip Blank

Methylene chloride was detected at a concentration of 0.47 ppb in the Trip Blank submitted for the sampling event that occurred on 3/2/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated method blank.

Equipment Blank (SKSWDEB1009)

Ethylbenzene (0.022 ppb), Methylene chloride (0.4 ppb), Styrene (0.06 ppb) Toluene (0.43 ppb) and total Xylenes (0.11 ppb) were detected in the Equipment Blank collected on 3/2/04. The analytes Ethylbenzene, Styrene, Toluene, and total Xylenes were not detected in the associated samples therefore no data qualification was not required. The Methylene chloride detected in the equipment blank was mitigated by the presence of Methylene chloride in the associated method blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91).

GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the "B" qualifier off of the CLP Form 1's for Methylene chloride therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

13. OVERALL ASSESSMENT

The Acetone detected in sample SKSWD03D1009 could be do to low level contamination because Acetone is a common laboratory contaminant and the fact that Acetone was not detected in the associated duplicate sample. The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204030804 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits. The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank and equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank 151585

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/8/04.

Equipment Blank SKSWDEB1009

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 3/2/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples except for TCX and DCB associated with sample SKSWD031009. There were no target compounds detected in sample SKSWD031009 therefore no action was taken.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

There were no samples submitted for MS MSD analysis during this sampling event.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of Endrin (135%), 4,4'-DDT (139%) and Methoxychlor (121%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. ***National*** *Functional Guidelines for Inorganic Data* ***Review.***

US EPA, 1999. ***National*** *Functional Guidelines for Organic Data* ***Review.***

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 03/31/2004

GCAL Report 204030804

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

CASE NARRATIVE

Client: Earth Tech **Report:** 204030804

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES MASS SPECTROMETRY

In the prep batch 270522, the MS/MSD exhibited sporadic recovery failures.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Pesticide Florisil check analysis, the recoveries for Endrin, 4,4-DDT and Methoxychor were above recovery limits; however, these compounds were not detected in the associated samples.

In the Pesticide analysis for sample 20403080401 (SKSWD031009), the surrogate Tetrachloro-m-xylene and Decachlorobiphenyl are above the control limits.

METALS

In the ILM04.1 - CLP Metals analysis for prep batches 270882 and 270883, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for these batches with a recovery of 88% and 99%.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 204030804

THIS REPORT CONTAINS _____ PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20403080401	SKSWD031009	Water	03/02/2004 10:55	03/06/2004 11:50
20403080402	SKSWD03D1009	Water	03/02/2004 11:18	03/06/2004 11:50
20403080403	SKSWD03MS1009	Water	03/02/2004 11:45	03/06/2004 11:50
20403080404	SKSWD03MSD1009	Water	03/02/2004 12:08	03/06/2004 11:50
20403080405	SKSWD03DUP1009	Water	03/02/2004 12:08	03/06/2004 11:50
20403080406	SKSWDEB1009	Water	03/02/2004 12:40	03/06/2004 11:50
20403080407	TRIP BLANK	Water	03/02/2004 00:00	03/06/2004 11:50
20403080408	SKSWD031009 (DISS)	Water	03/02/2004 10:55	03/06/2004 11:50
20403080409	SKSWD03D1009 (DISS)	Water	03/02/2004 11:18	03/06/2004 11:50
20403080410	SKSWD03MS1009(DISS)	Water	03/02/2004 11:45	03/06/2004 11:50
20403080411	SKSWD03DUP1009(DISS)	Water	03/02/2004 12:08	03/06/2004 11:50
20403080412	SKSWDEB1009(DISS)	Water	03/02/2004 12:40	03/06/2004 11:50

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD031009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403080401

Level: (low/med) Lab File ID: 2040313/T2457

% Moisture: not dec. Date Collected: 03/02/04 Time: 1055

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1434

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 270560

CONCENTRATION UNITS: ug/L Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0 0.12	B U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

5/5/04 MSK

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKSWD031009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403080401

Level: (low/med) Lab File ID: 2040313/T2457

% Moisture: not dec. Date Collected: 03/02/04 Time: 1055

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1434

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 270560

CONCENTRATION UNITS: ug/L Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total	1.0	U	0.010	1.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03D1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 20403080:

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20403080402

Level: (low/med)

Lab File ID: 2040313/T2456

% Moisture: not dec.

Date Collected: 03/02/04 Time: 1118

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 03/06/04

Instrument ID: MSV2

Date Analyzed: 03/13/04 Time: 1408

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 270560

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	3.1	J	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0 2.0	B+ U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

5/5/04 MSK

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03D1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403080402

Level: (low/med) Lab File ID: 204031 3/T2456

% Moisture: not dec. Date Collected: 03/02/04 Time: 1118

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1408

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 270560

CONCENTRATION UNITS: ug/L Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWDEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403080406

Level: (low/med) Lab File ID: 2040313/T2458

% Moisture: not dec. Date Collected: 03/02/04 Time: 1240

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1459

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 270560

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	0.022	J	0.010	1.0	
75-09-2	Methylene chloride	2.0 0.40	B	0.010	2.0	U
100-42-5	Styrene	0.060	J	0.010	1.0	

FORM I VOA

5/16/04 mse

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKSWDEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20403080406

Level: (low/med) Lab File ID: 2040313/T2458

% Moisture: not dec. Date Collected: 03/02/04 Time: 1240

GC Column: DB-624-30M ID: 53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1459

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 270560

CONCENTRATION UNITS: ug/L Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	0.43	J	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	0.44	J	0.010	1.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Level: (low/med)

% Moisture: not dec.

GC Column: DB-624-30M ID: .53 (mm)

Instrument ID: MSV2

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Lab Sample ID: 20403080407

Lab File ID: 2040313/T2459

Date Collected: 03/02/04 Time: 0000

Date Received: 03/06/04

Date Analyzed: 03/13/04 Time: 1524

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 270560

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0
75-09-2	Methylene chloride	2.0 0.47	B U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20403080407

Level: (low/med) Lab File ID: 2040313/T2459

% Moisture: not dec. Date Collected: 03/02/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 03/06/04

Instrument ID: MSV2 Date Analyzed: 03/13/04 Time: 1524

Soil Extract Volume: (uL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (uL) Prep Batch: Analytical Batch: 270560

CONCENTRATION UNITS ug/L Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S4997

Matrix: Water | Lab Sample ID: 20403080401

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/02/04 | Time: 1055

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/8/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/19/04 | Time: 1323

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/6/04 MS

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S4997

Matrix: Water | Lab Sample ID: 20403080401

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/02/04 | Time: 1055

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/5/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/19/04 | Time: 1323

Concentrated Extract Volume: 1000 (uL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (uL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	UJ
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/11 MK

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204030804
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031009
Contract:
Lab File ID: 2040319/S4997
Lab Sample ID: 204030804C1
Date Collected: 03/02/04 Time: 1055
Date Received: 03/06/04
Date Extracted: 3/8/04
Date Analyzed: 03/19/04 Time: 1323
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-646 8270C
Instrument ID: MSSV2

Number TICs Found : 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.		Unknown	4.364	3.38		J
2.		Unknown	4.625	10.5		J
3.	4291-79-6	Cyclohexane, 1-methyl-2-propyl	4.862	13.5		J

5/6/04 mcs

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD03D1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S4998

Matrix: Water | Lab Sample ID: 20403080402

Sample wt/vol: 1000 Units: mL | Date Collected: 03/02/04 Time: 1118

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/9/04

GC Column: DB-5MS-30M ID: .25 (mm) | Date Analyzed: 03/19/04 Time: 1351

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	J	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD03D1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S4998

Matrix: Water | Lab Sample ID: 20403080402

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/02/04 | Time: 1118

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/8/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/19/04 | Time: 1351

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	U3
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	

5/6/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204030804
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD03D1009
Contract:
Lab File ID: 2040319/S4998
Lab Sample ID: 20403080402
Date Collected: 03/02/04 Time: 1118
Date Received: 03/06/04
Date Extracted: 3/8/04
Date Analyzed: 03/19/04 Time: 1351
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found: 3

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.		Unknown	4.369	3.17		4
2.		Unknown	4.823	9.62		4
3.	49622-18-6	Decane, 3,3,4-trimethyl-	4.973	14.6		4

3/8/04 pm

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWDEB1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S5001

Matrix: Water | Lab Sample ID: 20403080406

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/02/04 | Time: 1240

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/8/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/19/04 | Time: 1513

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L

Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0

5/6/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWDEB1009

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204030804 | Lab File ID: 2040319/S5001

Matrix: Water | Lab Sample ID: 20403080406

Sample wt/vol: 1000 | Units: mL | Date Collected: 03/02/04 | Time: 1240

Level: (low/med) | Date Received: 03/06/04

% Moisture: | decanted: (Y/N) | Date Extracted: 3/8/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 03/19/04 | Time: 1513

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV2

CONCENTRATION UNITS: ug/L | Prep Batch: 270522 | Analytical Batch: 271099

CAS NO.	COMPOUND	RESULT	Q	MDL	PQL
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	10.0	U	0.010	10.0
129-00-0	Pyrene	10.0	U	0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

FORM I SV-1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204030804
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWDEB1009
Contract:
Lab File ID: 2040319/S5001
Lab Sample ID: 20403080406
Date Collected: 03/02/04 Time: 1240
Date Received: 03/06/04
Date Extracted: 3/8/04
Date Analyzed: 03/19/04 Time: 1513
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV2

Number TICs Found : 3

CONCENTRATION UNITS:

	CAS NO.	*COMPOUND*	*RT*	*EST. CONC.*	*Q*	
1.		Unknown	4.366	3.57		ug
2.		Unknown	4.627	10.3		ug
3.	49622-18-6	Decane, 3,3,4-trimethyl-	4.864	12		ug

5/6/04 MSA

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204030804

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403080401

Level: (low/med) | Date Collected: 03/02/04 | Time: 1055

% Moisture: | decanted (Y/N) | Date Received: 03/06/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/8/04 single SC

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 03/31/04 | Time: 0540

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 270511 | Analytical Batch: 271554 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040330/SV6023

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD03D1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204030804

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403080402

Level: (low/med) | Date Collected: 03/02/04 | Time: 1118

% Moisture: | decanted: (Y/N) | Date Received: 03/06/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/8/04 shaker mix

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 03/31/04 | Time: 0608

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 270511 | Analytical Batch: 271554 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040330/SV6024

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSVDEB1009

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204030804

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20403080406

Level: (low/med) | Date Collected: 03/02/04 | Time: 1240

% Moisture: | decanted: (Y/N) | Date Received: 03/06/04

GC Column: DB-608-30M | ID: .53 (mm) | Date Extracted: 3/30/04 slidey mix

Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 03/31/04 | Time: 0733

Soil Aliquot Volume: (uL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (uL) | Prep Method:

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 270511 | Analytical Batch: 271554 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS6A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040330/SV6027

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil / water) Water Lab Sample ID: 20403080401

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	5.2	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	40.0	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.4	B		P	
7440-50-8	Copper	11.0	B		P	J
7439-89-6	Iron	2200			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.5	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	14.6	B		P	
57-12-5	Cyanide	0.8	B		AS	

sinloy
msh

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03D1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil / water) Water Lab Sample ID 20403080402

Level (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	5.3	B		P	
7440-39-3	Barium	39.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.3	B		P	
7440-50-8	Copper	4.5	B		P	J
7439-89-6	Iron	2220			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.8	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	7.2	B		P	
57-12-5	Cyanide	2.5	B		AS	

slight ns

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil / water) Water Lab Sample ID: 20403080406

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	3.5	B		P	J
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	3.7	B		P	
57-12-5	Cyanide	1.9	B		AS	

S/NOI MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil / water) Water Lab Sample ID: 20403080408

Level: (low / med) Date Received 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	5.3	B		P
7440-39-3	Barium	29.8	B		P
7440-41-7	Beryllium	0.2	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	4.6	B		P
7439-89-6	Iron	17.2	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.4	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

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5/11/04 mss

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03D1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix: (soil / water) Water Lab Sample ID: 20403080409

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	4.1	B		P
7440-39-3	Barium	29.8	B		P
7440-41-7	Beryllium	0.1	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	27.7	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.3	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	0.6	U		P

.K UJ

5/11/04 mk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1009(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Matrix (soil / water) Water Lab Sample ID 20403080412

Level (low / med) Date Received 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	0.3	U		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	22.6	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.5	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	3.9	B		P

* u1

slulry prep

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only: Earth Tech (Client Name)	4342 (Client #)	0403080404 (Workorder #)	3/19/04 (Due Date)

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Same
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill - 1 Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Lab use only:
Custody Seal used ☑ yes ☐ no
Custody Seal in tact ☑ yes ☐ no
Temperature °C 4

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi Volatiles	Pesticides	PCB's	total metals	dissolved metals	Cyanide			dist	Remarks:	Lab ID
W	3/2/04	1055		X	SkSWD031009	HCL	3	X	X	X	X	X	X	X	P.N.		8	Refer to Table 7	-1
		1118			SkSWD03D1009	HCL	3	X	X	X	X	X	X	X	P.N.		9	(TCL) and Table 8	2
		1145			SkSWD03MS 1009	HCL	3	X									10	(TAL) of final	3
		1200			SkSWD03 MSD 1009	HCL	3	X							MSD -	4,	11	O+M plan for dup.	5
		1240			SkSWDEB 1009	Varies	10	X	X	X	X	X	X	X			12	list of analytes.	6
					Trip Blank	HCL	3	X											7

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FedX		
Relinquished by: (Signature) FedEX 9425 9530 7654	Received by: (Signature) Dan Pinkard	3-6-04	1030
Relinquished by: (Signature) Dan Pinkard	Received by: (Signature) Cooler	3-6-04	1150

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-36 11/98

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	4403804	5/14/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2700
Fax: 859 442-2111

Bill to:
Client:
Address:
Contact: SAME
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Chimney Landfill - 1 Qtr. 2004
Sampled By: Pat Higgins / Chris Cox

Analytical Requests & Method

Lab use only:
Custody Seal used [X] yes [ ] no
Custody Seal in tact [X] yes [ ] no
Temperature °C 4

Matrix*	Date	Time (2400)	# Containers	Sample Description	Preservatives	No. Containers	Volatiles	Semivolatiles	PCBs	Pesticides	Total Metals	Dissolved Metals	Cyanide	#	Remarks:	Lab ID
W	3/2/04	1055	X	SKSWD03 1004	Various	7	X	X	X	X	X	X		8	Refer to	3/4 - 1
W	3/2/04	1118	X	SKSWD03D 1004	Various	7	X	X	X	X	X	X		9	Table 7 (TCL) and Table 8 (TAL) of Final QAPP Plan for list of analytes	2

Turn Around Time: [ ] 24-48 hrs. [ ] 3 days [ ] 1 week [X] Standard [ ] Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED X		
Relinquished by: (Signature) Fedex 9425 9530 7656	Received by: (Signature) Dan Pruitt	Date: 3-6-04	Time: 1030
Relinquished by: (Signature) Dan Pruitt	Received by: (Signature) Cooler	Date: 3-6-04	Time: 1150

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE CLIENT FINAL REPORT ... YELLOW LABORATORY ... PINK ...

GCAL 5 11/95

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Earth Tech (Client Name)	4342	704D30804	3/19/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, Ky 41076
Contact: Pat Higgins
Phone: 859 442 2700
Fax: 859 442 2711

Bill to:
Client:
Address:
Contact: Same
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Shimmer Landfill - 1 Qtr. 2004
Sampled By: Pat Higgins/ Chris Cox

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi Volatiles	Pesticides	PCB's	total Metals	Dissolved Metals	Cyanide			Lab ID
W	3/2/04	1145		X	SkSwD03MS 100%	Various	7		X	X	X	X	X	X	10		3/8
W	3/2/04	1208		X	SkSwD03MSD 100%	Various	7		X	X	X	X	X	X	11	MSD-4	3/9

Lab use only:
Custody Seal used [x] yes [ ] no
in tact [x] yes [ ] no
Temperature °C 4

Remarks: Refer to Table 7 dup-5 (RL) and Table 8 (RL) of final O&M Plan for list of analytes

Turn Around Time: [ ] 24-48 hrs. [ ] 3 days [ ] 1 week [X] Standard [ ] Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED X		
FEDEX 0415 9530 3645	Dan Pruitt	3-6-04	1030
Dan Pruitt	Cooler	3-6-04	1150

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

CAL-006 11-96

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204031909

PROJECT MANAGER: Ron Rolker

Date: May 11, 2004

Revised Report Dated: September 29, 2005

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190907	SKGW61DUP1009
20403190908	SKGWFB1009
20403190910	SKGW581009 (DISS)
20403190911	SKGW58DUP1009 (DISS)
20403190912	SKGW631009 (DISS)
20403190913	SKGW611009 (DISS)
20403190914	SKGW61MS1009 (DISS)
20403190915	SKGW61DUP1009 (DISS)
20403190916	SKGWFB1009 (DISS)
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009
20403220808	SKGW06R1009 (DISS)
20403220809	SKGW07R1009 (DISS)
20403220810	SKGW591009 (DISS)
20403220811	SKGW601009 (DISS)
20403220812	SKGW62A1009 (DISS)
20403220813	SKGW641009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis

7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No analytes were detected in the ICB, CCB, PB and Field blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the cont[redacted]120%) for [redacted] constituents.

6. DUPLICATE ANALYSIS

The Relative Percent Difference (RPD) between the sample and duplicate results were within the acceptance criteria for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Selenium in the total (45%) and dissolved (73%) fractions. As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Manganese associated with the dissolved fraction.

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

GCAL qualified the total metal results for Aluminum, Copper, Lead, and Zinc with an "E" qualifier on the Form 1's to indicate that the %Difference (%D) between the original results and its serial dilution result exceeded the control limit. GCAL qualified the dissolved metal results for Iron with an "E" qualifier on the Form 1's to indicate that the %Difference (%D) between the original results and its serial dilution result exceeded the control limit. The %Differences were actually within the control limit therefore the data validator crossed out the (E) with a single line and dated and initialed the bottom of the report.

11. OVERALL ASSESSMENT

The percent recoveries for Arsenic in the Contract Required Detection Limit (CRDL) standards were 123%, 106%, and 120%.

The percent recoveries for Copper in the Contract Required Detection Limit (CRDL) standards were 84, 81%, and 79%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 122%, 100%, and 139%. The Selenium results were previously qualified under Section 7- titled "Spike Sample Analysis".

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 125.8%, 146.7%, and 130.4%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 73.9%, 71.5%, and 68.9%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD's were within the acceptance criteria of less than 30%. Di-n-octylphthalate and Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

B. Continuing Calibration

One CC dated 3/26/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 3/26/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 3/26/04 were within the acceptance criteria with the exception the %D for Di-n-butylphthalate and Di-n-octylphthalate. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and field blank were analyzed with this SDG. The results are summarized below.

Method Blank (0322SBLK)

Di-n-butylphthalate was detected at a concentration of 0.604 ppb in method blank 0322SBLK.

Field Blank (SKGWFB1009)

There were no analytes detected above the MDL in the field blank collected on 3/18/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGWD611009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's. GCAL also inadvertently left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's.

The "B" qualifier indicates that the analyte was detected in the associated method blank. On pages 210/212/213/214 sample SKGW07R1009 was not listed but 2 field blanks were listed while only one field blank submitted for analysis. GCAL corrected the mistake and reissued corrected pages.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204031909 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403190909	SKTB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009
20403220807	SKGW651009
20403220814	TRIP BLANK

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance

12. Documentation

13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on two GC/MS system, identified as MSV0 and MSV2. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

Two IC's dated 3/21/04 and 3/23/04 were analyzed in support of the volatile sample analyses reported in the data submissions. The IC dated 3/21/04 was analyzed on instrument MSV0 and the IC dated 3/23/04 was analyzed on instrument MSV2. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 3/21/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butnaone. The RRF for the 1.0 ppb standard was below the acceptance criteria. The data validator dropped the 1.0 ppb standard for 1,2-Dibromo-3-chloropropane from the calibration curve and re-calculated the average RRF and %RSD. 1,2-Dibromo-3-chloropropane was not detected in any of the associated samples therefore data qualification was not required.

The RRF's and the average RRF for the IC dated 3/23/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R).

It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

Two CC dated 3/21/04 and 3/23/04 were analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions.

CC dated 3/21/04
The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butnaone. The Acetone and 2-Butnaone results were previously qualified under section 3A above.

CC dated 3/23/04
The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

Two laboratory volatile method blanks, storage blank, two Trip Blanks, and a Field Blank were analyzed with this SDG. The results are summarized below.

MB153850

1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected at concentrations of 0.20 ppb and 0.12 ppb respectively in the method blank analyzed on 3/21/04.

MB153988

Acetone, 1,2-Dichlorobenzene and 1,3-Dichlorobenzene were detected at concentrations of 1.5 ppb, 0.21 ppb and 0.16 ppb respectively in the method blank analyzed on 3/23/04.

Storage Blank (CLP Storage Blank)

Methylene chloride, 1,4-Dichlorobenzene, and 1,2-Dichlorobenzene were detected at concentrations of 0.15 ppb, 0.096 ppb and 0.11 ppb respectively in the storage blank analyzed on 3/23/04.

Trip Blank (SKTB1009)

Methylene chloride was detected at a concentration of 0.23 ppb in the Trip Blank submitted for the sampling event that occurred on 3/18/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

Trip Blank

Acetone and Methylene chloride were detected at concentrations 3.1 ppb and 0.24 ppb respectively in the Trip Blank submitted for the sampling event that occurred on 3/16-17/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

Field Blank (SKGWFB1009)

Methylene chloride was detected at a concentration of 0.52 ppb in the Field Blank collected on 3/18/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated storage blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGWD611009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries (60%-140%) and %RPD (<40%) between the MS/MSD were within the acceptance criteria with the exception of the following:

Compound	MS	MSD	RPD
1,1-Dichloroethene	**142**	**150**	5
2-Hexanone	**58**	87	40
4-methyl-2-pentanone	67	102	**41**
Bromomethane	**151**	**156**	3
Carbon disulfide	**145**	**145**	0
Chloroethane	132	**145**	9
Chloromethane	135	**146**	8
Vinyl chloride	135	**143**	**6**

The results that are bolded exceeded the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91). GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently transposed the area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. The data validator corrected the mistake by drawing arrows to indicate the correct area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204031909 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204031909.

GCAL #	Sample Description
20403190901	SKGW581009
20403190902	SKGW58DUP1009
20403190903	SKGW631009
20403190904	SKGW611009
20403190905	SKGW61MS1009
20403190906	SKGW61MSD1009
20403190908	SKGWFB1009
20403220801	SKGW06R1009
20403220802	SKGW07R1009
20403220803	SKGW591009
20403220804	SKGW601009
20403220805	SKGW62A1009
20403220806	SKGW641009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank and field blank were analyzed with this SDG. The results are summarized below.

Method Blank 154072

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/23/04

Field Blank (SKGWFB1009)

No constituents were detected above the laboratory-reporting limit in the field blank collected on 3/18/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGWD611009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of 4,4'-DDT (130%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 04/08/2004

GCAL Report 204031909

ADDENDUM

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins
Customer	Earth Tech
Project	Skinner Landfill

000001

CASE NARRATIVE

Client: Earth Tech **Report:** 204031909

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

The ILM04.1 – CLP analysis is resubmitted as an addendum to include an expanded list of compounds at the request of the client. The Addendum includes an updated case narrative.

VOLATILES MASS SPECTROMETRY

In analytical batch 271073, the MS/MSD exhibited sporadic recovery and RPD failures. The LCS/LCSD recoveries were acceptable.

In analytical batch 271108, no MS/MSD was analyzed due to insufficient sample volume. All LCS/LCSD recoveries were acceptable.

SEMI-VOLATILES MASS SPECTROMETRY

The MS/MSD recoveries for 4-Nitrophenol were above the upper control limit. All other batch QC was acceptable.

SEMI-VOLATILE GAS CHROMATOGRAPHY

In the Pesticide analysis, the recovery for DDT was above control limits in the Florisil check, however DDT was not detected in the associated samples.

METALS

In the ILM04.1 - CLP Metals analysis for prep batch 271122, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 49%. Aluminum, Copper, Lead, and Zinc is flagged as estimated for samples associated with prep batch 271122 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected. The Sample/Duplicate RPD for Vanadium for prep batch 271122 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

In the ILM04.1 - CLP Metals analysis for prep batch 271124, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This

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indicates the analysis is in control and the sample is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 0%. Iron and Manganese is flagged as estimated for samples associated with prep batch 271124 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected. The Sample/Duplicate RPD for Vanadium for prep batch 271124 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 271113 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190901

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12000		E	P	
7440-36-0	Antimony	5.7	B		P	
7440-38-2	Arsenic	11.5			P	J
7440-39-3	Barium	284			P	
7440-41-7	Beryllium	1.0	B		P	
7440-43-9	Cadmium	1.5	B		P	
7440-70-2	Calcium	214000			P	
7440-47-3	Chromium	28.2			P	
7440-48-4	Cobalt	13.4	B		P	
7440-50-8	Copper	45.7		E	P	J msh
7439-89-6	Iron	32700			P	
7439-92-1	Lead	19.5		E	P	
7439-95-4	Magnesium	56000			P	
7439-96-5	Manganese	1300			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	32.1	B		P	
7440-09-7	Potassium	7640			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	33500			P	
7440-28-0	Thallium	4.1	B		P	J
7440-62-2	Vanadium	23.2	B		P	
7440-66-6	Zinc	81.0		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/30/05 msh

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000493

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58DUP1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190902

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17100		E	P	
7440-36-0	Antimony	3.7	B		P	
7440-38-2	Arsenic	15.1			P	J
7440-39-3	Barium	326			P	
7440-41-7	Beryllium	1.3	B		P	
7440-43-9	Cadmium	1.9	B		P	
7440-70-2	Calcium	256000			P	
7440-47-3	Chromium	41.8			P	
7440-48-4	Cobalt	19.5	B		P	
7440-50-8	Copper	55.9		E	P	J mk
7439-89-6	Iron	48400			P	
7439-92-1	Lead	27.2		E	P	
7439-95-4	Magnesium	63200			P	
7439-96-5	Manganese	1500			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	46.4			P	
7440-09-7	Potassium	8480			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	34600			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	32.9	B		P	
7440-66-6	Zinc	125		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/30/05 mk

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000494

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190903

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	26600		E	P	
7440-36-0	Antimony	5.7	B		P	
7440-38-2	Arsenic	17.1			P	J
7440-39-3	Barium	186	B		P	
7440-41-7	Beryllium	2.1	B		P	
7440-43-9	Cadmium	2.5	B		P	
7440-70-2	Calcium	465000			P	
7440-47-3	Chromium	38.2			P	
7440-48-4	Cobalt	28.3	B		P	
7440-50-8	Copper	69.2		E	P	J mv
7439-89-6	Iron	63200			P	
7439-92-1	Lead	41.0		E	P	
7439-95-4	Magnesium	111000			P	
7439-96-5	Manganese	2570			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	58.1			P	
7440-09-7	Potassium	9320			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	45000			P	
7440-28-0	Thallium	8.5	B		P	J
7440-62-2	Vanadium	43.0	B		P	
7440-66-6	Zinc	176		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/30/05 msw

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000495

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190904

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	452		E	P	
7440-36-0	Antimony	4.8	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	44.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-70-2	Calcium	187000			P	
7440-47-3	Chromium	1.9	B		P	
7440-48-4	Cobalt	1.7	B		P	
7440-50-8	Copper	22.2	B	E	P	Amm
7439-89-6	Iron	2430			P	
7439-92-1	Lead	22.1		E	P	
7439-95-4	Magnesium	30000			P	
7439-96-5	Manganese	527			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.3	B		P	
7440-09-7	Potassium	6950			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	27000			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.1	B		P	
7440-66-6	Zinc	7.3	B	E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/30/05 msa

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000496

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190905

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2520		E	P	
7440-36-0	Antimony	116			P	
7440-38-2	Arsenic	50.0			P	J
7440-39-3	Barium	2120			P	
7440-41-7	Beryllium	53.8			P	
7440-43-9	Cadmium	50.4			P	
7440-70-2	Calcium	188000			P	
7440-47-3	Chromium	209			P	
7440-48-4	Cobalt	498			P	
7440-50-8	Copper	279		E	P	J nsw
7439-89-6	Iron	3390			P	
7439-92-1	Lead	42.2		E	P	
7439-95-4	Magnesium	29400			P	
7439-96-5	Manganese	1060			P	
7439-97-6	Mercury	5.1			AV	
7440-02-0	Nickel	503			P	
7440-09-7	Potassium	7060			P	
7782-49-2	Selenium	4.5	B	N	P	J
7440-22-4	Silver	51.5			P	
7440-23-5	Sodium	27200			P	
7440-28-0	Thallium	48.3			P	J
7440-62-2	Vanadium	531			P	
7440-66-6	Zinc	480		E	P	J
57-12-5	Cyanide	86.1			AS	

9/30/05 mw

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

000497

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190907

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	470		E	P	
7440-36-0	Antimony	5.5	B		P	
7440-38-2	Arsenic	3.7	B		P	J
7440-39-3	Barium	45.4	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-70-2	Calcium	192000			P	
7440-47-3	Chromium	1.6	B		P	
7440-48-4	Cobalt	1.6	B		P	
7440-50-8	Copper	18.6	B	E	P	J msh
7439-89-6	Iron	2490			P	
7439-92-1	Lead	22.5		E	P	
7439-95-4	Magnesium	30300			P	
7439-96-5	Manganese	530			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.7	B		P	
7440-09-7	Potassium	7140			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	27800			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.7	B		P	
7440-66-6	Zinc	7.0	B	E	P	J
57-12-5	Cyanide	0.8	B		AS	

9/30/05 msh

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

000498

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190908

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U	~~E~~	P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.4	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	93.4	B		P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	1.2	U	~~E~~	P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U	~~E~~	P	
7439-95-4	Magnesium	72.5	B		P	
7439-96-5	Manganese	0.8	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.9	B		P	
7440-09-7	Potassium	42.1	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	139	B		P	
7440-28-0	Thallium	4.6	B		P	J
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	3.2	B	~~E~~	P	J
57-12-5	Cyanide	0.5	U		AS	

9/30/05 MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000499

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190910

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.1	B		P	
7440-39-3	Barium	156	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	109000			P	
7440-47-3	Chromium	1.5	B		P	
7440-48-4	Cobalt	1.3	B		P	
7440-50-8	Copper	2.9	B		P	J
7439-89-6	Iron	209		E	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	32500			P	
7439-96-5	Manganese	549		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.6	B		P	
7440-09-7	Potassium	4550	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	32400			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.6	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05 mm

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000500

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58DUP1009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190911

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	164	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	109000			P	
7440-47-3	Chromium	1.3	B		P	
7440-48-4	Cobalt	1.3	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	201		E	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	34400			P	
7439-96-5	Manganese	492		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.0	B		P	
7440-09-7	Potassium	5130			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	35200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.4	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/04 mm

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000501

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190912

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.8	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	20.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	295000			P	
7440-47-3	Chromium	1.8	B		P	
7440-48-4	Cobalt	1.1	B		P	
7440-50-8	Copper	2.0	B		P	J
7439-89-6	Iron	21.4	B	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	67000			P	
7439-96-5	Manganese	271		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.2	B		P	
7440-09-7	Potassium	5210			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	46100			P	
7440-28-0	Thallium	4.6	B		P	J
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000502

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190913

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	4.5	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	39.4	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.3	B		P	
7440-70-2	Calcium	191000			P	
7440-47-3	Chromium	1.1	B		P	
7440-48-4	Cobalt	1.4	B		P	
7440-50-8	Copper	8.0	B		P	J
7439-89-6	Iron	187		E	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	29100			P	
7439-96-5	Manganese	485		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.2	B		P	
7440-09-7	Potassium	6990			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0 4	U		P	
7440-23-5	Sodium	27900			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.2	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05 MH

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190914

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2150			P	
7440-36-0	Antimony	117			P	
7440-38-2	Arsenic	48.4			P	
7440-39-3	Barium	2110			P	
7440-41-7	Beryllium	54.3			P	
7440-43-9	Cadmium	50.1			P	
7440-70-2	Calcium	184000			P	
7440-47-3	Chromium	208			P	
7440-48-4	Cobalt	489			P	J
7440-50-8	Copper	272			P	
7439-89-6	Iron	1210		E	P	
7439-92-1	Lead	18.7			P	
7439-95-4	Magnesium	28600			P	
7439-96-5	Manganese	991		E	P	J
7439-97-6	Mercury	4.1			AV	
7440-02-0	Nickel	491			P	
7440-09-7	Potassium	6730			P	
7782-49-2	Selenium	7.3		N	P	J
7440-22-4	Silver	52.9			P	
7440-23-5	Sodium	27300			P	
7440-28-0	Thallium	53.5			P	J
7440-62-2	Vanadium	532			P	
7440-66-6	Zinc	467			P	J

9/2/05 MSE

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

000504

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190915

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	38.9	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	186000			P	
7440-47-3	Chromium	1.3	B		P	
7440-48-4	Cobalt	1.3	B		P	
7440-50-8	Copper	5.2	B		P	J
7439-89-6	Iron	195		E	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	28400			P	
7439-96-5	Manganese	477		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.6	B		P	
7440-09-7	Potassium	6860			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	27200			P	
7440-28-0	Thallium	5.6	B		P	J
7440-62-2	Vanadium	1.8	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05 mk

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403190916

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	34.9	B		P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.5	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	47.3	B		P	
7439-96-5	Manganese	0.2	U	E	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7440-09-7	Potassium	42.1	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	120	B		P	
7440-28-0	Thallium	7.5	B		P	J
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/04 MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000506

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220801

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9900		E	P	
7440-36-0	Antimony	5.5	B		P	
7440-38-2	Arsenic	12.4			P	J
7440-39-3	Barium	440			P	
7440-41-7	Beryllium	1.1	B		P	
7440-43-9	Cadmium	1.0	B		P	
7440-70-2	Calcium	309000			P	
7440-47-3	Chromium	16.9			P	
7440-48-4	Cobalt	12.3	B		P	
7440-50-8	Copper	39.3		E	P	
7439-89-6	Iron	25300			P	
7439-92-1	Lead	23.9		E	P	
7439-95-4	Magnesium	83600			P	
7439-96-5	Manganese	988			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	23.4	B		P	
7440-09-7	Potassium	3970	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	21900			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	22.2	B		P	
7440-66-6	Zinc	72.9		E	P	J
57-12-5	Cyanide	1.0	B		AS	

9/30/05 mm

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

000507

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220802

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7810		E	P	
7440-36-0	Antimony	6.6	B		P	
7440-38-2	Arsenic	6.9	B		P	J
7440-39-3	Barium	484			P	
7440-41-7	Beryllium	0.8	B		P	
7440-43-9	Cadmium	0.9	B		P	
7440-70-2	Calcium	281000			P	
7440-47-3	Chromium	12.9			P	
7440-48-4	Cobalt	7.0	B		P	
7440-50-8	Copper	35.5		E	P	
7439-89-6	Iron	20200			P	
7439-92-1	Lead	9.2		E	P	
7439-95-4	Magnesium	54000			P	
7439-96-5	Manganese	1590			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	17.8	B		P	
7440-09-7	Potassium	4510	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	31200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	15.3	B		P	
7440-66-6	Zinc	51.2		E	P	J
57-12-5	Cyanide	1.5	B		AS	

9/30/05 msk

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

000508

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220803

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	816		~~E~~	P	
7440-36-0	Antimony	4.7	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	55.0	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	243000			P	
7440-47-3	Chromium	5.5	B		P	
7440-48-4	Cobalt	2.1	B		P	
7440-50-8	Copper	10.1	B	~~E~~	P	
7439-89-6	Iron	3020			P	
7439-92-1	Lead	1.5	U	~~E~~	P	
7439-95-4	Magnesium	51500			P	
7439-96-5	Manganese	224			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	6.7	B		P	
7440-09-7	Potassium	32500			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	162000			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.3	B		P	
7440-66-6	Zinc	7.9	B	~~E~~	P	J
57-12-5	Cyanide	1.0	B		AS	

9/30/05 mw

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:

000509

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220804

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	32500		E	P	
7440-36-0	Antimony	9.7	B		P	
7440-38-2	Arsenic	17.0			P	J
7440-39-3	Barium	129	B		P	
7440-41-7	Beryllium	2.5	B		P	
7440-43-9	Cadmium	2.8	B		P	
7440-70-2	Calcium	492000			P	
7440-47-3	Chromium	59.6			P	
7440-48-4	Cobalt	36.1	B		P	
7440-50-8	Copper	54.5		E	P	
7439-89-6	Iron	74200			P	
7439-92-1	Lead	40.4		E	P	
7439-95-4	Magnesium	112000			P	
7439-96-5	Manganese	1410			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	67.3			P	
7440-09-7	Potassium	11800			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	44600			P	
7440-28-0	Thallium	11.0			P	J
7440-62-2	Vanadium	51.2			P	
7440-66-6	Zinc	180		E	P	J

7/30-5
MK

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000510

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220805

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13200		E	P	
7440-36-0	Antimony	6.1	B		P	
7440-38-2	Arsenic	8.3	B		P	J
7440-39-3	Barium	361			P	
7440-41-7	Beryllium	1.1	B		P	
7440-43-9	Cadmium	1.6	B		P	
7440-70-2	Calcium	337000			P	
7440-47-3	Chromium	29.6			P	
7440-48-4	Cobalt	15.6	B		P	
7440-50-8	Copper	42.7		E	P	
7439-89-6	Iron	35000			P	
7439-92-1	Lead	39.5		E	P	
7439-95-4	Magnesium	88000			P	
7439-96-5	Manganese	1460			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	35.4	B		P	
7440-09-7	Potassium	13900			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	123000			P	
7440-28-0	Thallium	6.9	B		P	J
7440-62-2	Vanadium	23.0	B		P	
7440-66-6	Zinc	101		E	P	J
57-12-5	Cyanide	1.0	B		AS	

9/30/05 MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000511

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220806

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3080		~~E~~	P	
7440-36-0	Antimony	4.9	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	37.1	B		P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	213000			P	
7440-47-3	Chromium	7.0	B		P	
7440-48-4	Cobalt	5.4	B		P	
7440-50-8	Copper	11.3	B	~~E~~	P	
7439-89-6	Iron	7520			P	
7439-92-1	Lead	1.5	U	~~E~~	P	
7439-95-4	Magnesium	66000			P	
7439-96-5	Manganese	1650			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	16.4	B		P	
7440-09-7	Potassium	15000			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	59800			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	5.3	B		P	
7440-66-6	Zinc	13.6	B	~~E~~	P	J
57-12-5	Cyanide	1.3	B		AS	

9/30/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000512

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220808

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	266			P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	189000			P	
7440-47-3	Chromium	1.2	B		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	22.0	B	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	30000			P	
7439-96-5	Manganese	69.5		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.7	B		P	
7440-09-7	Potassium	2060	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	20700			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.6	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/20/05 mc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000513

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220809

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	113	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	185000			P	
7440-47-3	Chromium	1.1	B		P	
7440-48-4	Cobalt	0.7	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	32.9	B	E	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	26300			P	
7439-96-5	Manganese	914		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.2	B		P	
7440-09-7	Potassium	2350	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	25200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

4/30/05 MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000514

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220810

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	27.2	B		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	21.8	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	239000			P	
7440-47-3	Chromium	1.8	B		P	
7440-48-4	Cobalt	0.4	B		P	
7440-50-8	Copper	2.1	B		P	
7439-89-6	Iron	28.8	B	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	49000			P	
7439-96-5	Manganese	4.5	B	E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.6	B		P	
7440-09-7	Potassium	32800			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	166000			P	
7440-28-0	Thallium	3.1	B		P	J
7440-62-2	Vanadium	1.4	B		P	
7440-66-6	Zinc	3.1	B		P	J

9/3/05 mk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000515

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220812

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	111	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	122000			P	
7440-47-3	Chromium	2.1	B		P	
7440-48-4	Cobalt	0.5	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	48700			P	
7439-96-5	Manganese	164		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.8	B		P	
7440-09-7	Potassium	11100			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	120000			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.6	B		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05
MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000517

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403220813

Level: (low / med) Date Received: 03/19/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	28.3	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	176000			P	
7440-47-3	Chromium	1.7	B		P	
7440-48-4	Cobalt	1.8	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U	~~E~~	P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	56700			P	
7439-96-5	Manganese	1170		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	7.8	B		P	
7440-09-7	Potassium	12900			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	53900			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/30/05 mn

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000518

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/25/04 Time: 1050

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	123	103	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	24.7	123	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.60	96	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	19.9	99	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	95.2	95	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	42.0	84	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.80	97	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	29.2	97	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	78.0	97	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	12.2	122	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	19.6	98	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	25.2	126	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	97.2	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	29.5	74	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/25/04 Time: 1340

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	124	103	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	21.2	106	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.60	96	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.30	93	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.2	101	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	94.0	94	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	40.7	81	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.80	96	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	29.5	98	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	77.5	97	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	10.0	100	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	19.2	96	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	29.3	(147)	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	98.4	98	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	28.6	(71)	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204031909

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/25/04 Time: 1635

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	125	104	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	24.0	120	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.50	95	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.50	95	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	19.7	98	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	95.2	95	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	39.5	79	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.10	102	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	29.2	97	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	77.9	97	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	13.9	139	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	18.8	94	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	26.1	130	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	97.2	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	27.6	69	ug/L	ILM04.1 - CLP Metals	P

000523A

ADDITION

U.S. EPA - CLP

3

BLANKS

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	25.8	U	25.8	U	25.8	U	25.8	U	25.800	U	P
Antimony	9.2	B	7.7	B	3.7	U	3.9	B	4.334	B	P
Arsenic	2.9	U	2.9	U	4.5	B	4.5	B	2.900	U	P
Barium	0.3	U	0.3	U	0.3	U	0.3	U	0.604	B	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	1.3	B	1.6	B	0.2	U	2.8	B	0.470	B	P
Calcium	7.5	U	7.5	U	9.8	B	7.5	U	9.654	B	P
Chromium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Cobalt	0.4	U	0.4	U	0.4	U	0.6	B	0.793	B	P
Copper	16.7	B	19.8	B	4.5	B	12.8	B	20.742	B	P
Iron	14.1	U	14.1	U	14.1	U	14.1	U	17.689	B	P
Lead	2.2	B	1.5	U	1.5	U	1.5	U	1.500	U	P
Magnesium	36.7	U	36.7	U	36.7	U	81.2	B	36.700	U	P
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	AV
Nickel	0.7	U	0.7	U	0.7	U	1.2	B	1.140	B	P
Potassium	42.1	U	49.4	B	42.1	U	42.1	U	42.100	U	P
Selenium	4.4	U	4.4	U	4.4	U	4.4	U	4.400	B	P
Silver	0.4	U	0.4	U	-0.6	B	-0.7	B	0.400	U	P
Sodium	45.4	U	45.4	U	45.4	U	45.4	U	89.366	B	P
Thallium	4.6	B	8.0	B	2.6	U	4.4	B	3.425	B	P
Vanadium	0.8	U	0.9	B	1.2	B	0.9	B	1.283	B	P
Zinc	0.6	U	2.5	B	-4.5	B	0.6	U	11.747	B	P
Cyanide	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	AS

000524

RESUBMITTED

U.S. EPA - CLP

3

BLANKS

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	5	C	6	C	Prepa-ration Blank	C	M
Aluminum			25.8	U	25.8	U			25.800	U	P
Antimony			3.7	U	5.8	B			3.700	U	P
Arsenic			2.9	U	3.3	B			2.900	U	P
Barium			0.3	U	0.3	U			0.300	U	P
Beryllium			0.1	U	0.1	U			0.100	U	P
Cadmium			0.2	U	2.4	B			0.785	B	P
Calcium			7.5	U	7.5	U			15.883	B	P
Chromium			0.8	U	0.8	U			0.800	U	P
Cobalt			0.4	U	0.5	B			0.859	B	P
Copper			1.4	B	11.1	B			9.684	B	P
Iron			14.1	U	14.1	U			17.257	B	P
Lead			1.5	U	1.5	U			1.500	U	P
Magnesium			36.7	U	116.7	B			57.052	B	P
Manganese			0.2	U	0.2	U			0.200	U	P
Mercury			0.1	U					0.100	U	AV
Nickel			0.7	U	0.7	U			1.690	B	P
Potassium			42.1	U	42.1	U			42.100	U	P
Selenium			4.4	U	4.4	U			4.400	B	P
Silver			0.4	U	-0.4	B			-0.593	B	P
Sodium			45.4	U	45.4	U			69.029	B	P
Thallium			3.3	B	4.5	B			3.384	B	P
Vanadium			0.8	U	0.8	U			0.800	U	P
Zinc			-6.7	B	-2.2	B			8.8059	B	P
Cyanide											AS

MS/MSD RECOVERY

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No: SKGW611009

SAMPLE NO. : 20403190905

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	#	*QC. LIMITS*
Aluminum	ug/L	2000	452	2520	103		75 - 125
Antimony	ug/L	100	4.8	116	111		75 - 125
Arsenic	ug/L	40	2.9	50	118		75 - 125
Barium	ug/L	2000	44.1	2120	104		75 - 125
Beryllium	ug/L	50	.2	53.8	107		75 - 125
Cadmium	ug/L	50	.3	50.4	100		75 - 125
Chromium	ug/L	200	1.9	209	104		75 - 125
Cobalt	ug/L	500	1.7	498	99		75 - 125
Copper	ug/L	250	22.2	279	103		75 - 125
Iron	ug/L	1000	2430	3390	95		75 - 125
Lead	ug/L	20	22.1	42.2	100		75 - 125
Manganese	ug/L	500	527	1060	106		75 - 125
Mercury	ug/L	5	.1	5.1	103		75 - 125
Nickel	ug/L	500	4.3	503	100		75 - 125
Selenium	ug/L	10	4.4	4.5	45	N	75 - 125
Silver	ug/L	50	.4	51.5	103		75 - 125
Thallium	ug/L	50	2.6	48.3	97		75 - 125
Vanadium	ug/L	500	2.1	531	106		75 - 125
Zinc	ug/L	500	7.3	480	95		75 - 125
Cyanide	ug/L	100	.5	86.1	86		75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 1 out of 20 outside limits

000528

RESUBMITTED

MS/MSD RECOVERY

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No: SKGW611009(DISS)

SAMPLE NO. : 20403190914

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	2000	25.8	2150	107		75 - 125
Antimony	ug/L	100	4.5	117	113		75 - 125
Arsenic	ug/L	40	2.9	48.4	~~121~~ 114		75 - 125
Barium	ug/L	2000	39.4	2110	104		75 - 125
Beryllium	ug/L	50	.1	54.3	108		75 - 125
Cadmium	ug/L	50	.3	50.1	100		75 - 125
Chromium	ug/L	200	1.1	208	104		75 - 125
Cobalt	ug/L	500	1.4	489	98		75 - 125
Copper	ug/L	250	8	272	106		75 - 125
Iron	ug/L	1000	187	1210	103		75 - 125
Lead	ug/L	20	1.5	18.7	93		75 - 125
Manganese	ug/L	500	485	991	101		75 - 125
Mercury	ug/L	5	.1	4.1	81		75 - 125
Nickel	ug/L	500	4.2	491	97		75 - 125
Selenium	ug/L	10	4.4	7.3	73	N	75 - 125
Silver	ug/L	50	.4	52.9	106		75 - 125
Thallium	ug/L	50	2.6	53.5	107		75 - 125
Vanadium	ug/L	500	1.2	532	106		75 - 125
Zinc	ug/L	500	.6	467	93		75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 19 outside limits

000529

RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW611009PDS

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.:

% Solids for Sample: Level: (low / med)

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	*Control Limit %R*		*Spiked Sample Result (SSR)*	*C*	*Sample Result (SR)*	*C*	*Spike Added (SA)*	*% R*	*Q*	*M*
Aluminum			527		25.8	U		0		P
Antimony			142		4.8	B	120	114		P
Arsenic			27.2		2.9	U	20	136		P
Barium			44.2	B	.3	U		0		P
Beryllium			11		.2	B	10	109		P
Cadmium			10.2		.3	B	10	99		P
Calcium			185000		7.5	U		0		P
Chromium			22.7		1.9	B	20	104		P
Cobalt			101		1.7	B	100	100		P
Copper			69.1		22.2	B	50	94		P
Iron			2400		14.1	U		0		P
Lead			28		22.1		6	97		P
Magnesium			29300		36.7	U		0		P
Manganese			554		527		30	90		P
Nickel			82.6		4.3	B	80	98		P
Potassium			6960		42.1	U		0		P
Selenium			4.9	B	4.4	U	10	49		P
Silver			20.3		.4	U	20	101		P
Sodium			27000		45.4	U		0		P
Thallium			17.4		2.6	U	20	87		P
Vanadium			110		2.1	B	100	108		P
Zinc			44.3		7.3	B	40	93		P

Comments:

RESUBMITTED

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW611009(DISS)PDS

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

% Solids for Sample: Level: (low / med) _____

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Aluminum			25.8	U	25.8	U		0		P
Antimony			136		4.5	B	120	110		P
Arsenic			26.1		2.9	U	20	131		P
Barium			39.9	B	.3	U		0		P
Beryllium			10.9		.1	B	10	107		P
Cadmium			10		.3	B	10	97		P
Calcium			191000		7.5	U		0		P
Chromium			21.6		1.1	B	20	103		P
Cobalt			99		1.4	B	100	98		P
Copper			60.1		8	B	50	104		P
Iron			181		14.1	U		0		P
Lead			4		1.5	U	6	67		P
Magnesium			29000		36.7	U		0		P
Manganese			524		485		30	128		P
Nickel			78.2		4.2	B	80	93		P
Potassium			6970		42.1	U		0		P
Selenium			4.4	U	4.4	U	10	0		P
Silver			20.3		.4	U	20	102		P
Sodium			28000		45.4	U		0		P
Thallium			19.8		2.6	U	20	99		P
Vanadium			108		1.2	B	100	107		P
Zinc			40.8		.6	U	40	102		P

Comments:

000531
RESUBMITTED

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO

SKGW61DUP1009

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	0 - 200	452		470		18		P
Antimony	-	4.8	B	5.5	B	14		P
Arsenic	-	2.9	U	3.7	B	200		P
Barium	-	44.1	B	45.4	B	3		P
Beryllium	-	.2	B	.2	B	0		P
Cadmium	-	.3	B	.3	B	0		P
Calcium	0 - 20	187000		192000		3		P
Chromium	-	1.9	B	1.6	B	17		P
Cobalt	-	1.7	B	1.6	B	6		P
Copper	-	22.2	B	18.6	B	18		P
Iron	0 - 20	2430		2490		2		P
Lead	0 - 20	22.1		22.5		2		P
Magnesium	0 - 20	30000		30300		1		P
Manganese	0 - 20	527		530		.6		P
Mercury	-	.1	U	.1	U	0		AV
Nicke	-	4.3	B	3.7	B	15		P
Potassium	0 - 5000	6950		7140		190		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	.4	U	.4	U	0		P
Sodium	0 - 20	27000		27800		3		P
Thallium	-	2.6	U	2.6	U	0		P
Vanadium	-	2.1	B	1.7	B	21		P
Zinc	-	7.3	B	7	B	4		P
Cyanide	-	.5	U	.8	B	91		AS

000532

RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKGW61DUP1009 (DISS)

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.:

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	-	25.8	U	25.8	U	0		P
Antimony	-	4.5	B	3.7	U	200		P
Arsenic	-	2.9	U	2.9	U	0		P
Barium	-	39.4	B	38.9	B	1		P
Beryllium	-	.1	B	.1	B	0		P
Cadmium	-	.3	B	.2	U	200		P
Calcium	0 - 20	191000		186000		3		P
Chromium	-	1.1	B	1.3	B	17		P
Cobalt	-	1.4	B	1.3	B	7		P
Copper	-	8	B	5.2	B	42		P
Iron	0 - 100	187		195		8		P
Lead	-	1.5	U	1.5	U	0		P
Magnesium	0 - 20	29100		28400		2		P
Manganese	0 - 20	485		477		2		P
Mercury	-	.1	U	.1	U	0		AV
Nickel	-	4.2	B	3.6	B	15		P
Potassium	0 - 5000	6990		6860		130		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	.4	U	.4	U	0		P
Sodium	0 - 20	27900		27200		3		P
Thallium	-	2.6	U	5.6	B	200		P
Vanadium	-	1.2	B	1.8	B	40		P
Zinc	-	.6	U	.6	U	0		P

000533
RESUBMITTED

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Solid LCS Source:

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2190	109				
Antimony	500	557	111				
Arsenic	2000	2090	104				
Barium	2000	2070	104				
Beryllium	50.0	54.2	108				
Cadmium	50.0	51.5	103				
Calcium	12500	13200	106				
Chromium	200	206	103				
Cobalt	500	501	100				
Copper	250	280	112				
Iron	1000	1080	108				
Lead	500	512	102				
Magnesium	12500	12700	102				
Manganese	500	521	104				
Nickel	500	509	102				
Potassium	12500	12900	103				
Selenium	2000	2120	106				
Silver	50.0	52.6	105				
Sodium	12500	13100	105				
Thallium	2000	2050	102				
Vanadium	500	530	106				
Zinc	500	481	96				

000534

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7

LABORATORY CONTROL SAMPLE

Lab Name: PROJ AAH GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: _____

Solid LCS Source: _____

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L)			Solid (mg/kg)			
	True	Found	% R	True	Found	C	% R
Aluminum	2000	2110	105				
Antimony	500	552	110				
Arsenic	2000	2080	104				
Barium	2000	2060	103				
Beryllium	50.0	53.8	108				
Cadmium	50.0	51.5	103				
Calcium	12500	13000	104				
Chromium	200	204	102				
Cobalt	500	499	100				
Copper	250	275	110				
Iron	1000	1040	104				
Lead	500	512	102				
Magnesium	12500	12500	100				
Manganese	500	517	103				
Nickel	500	507	101				
Potassium	12500	12600	101				
Selenium	2000	2120	106				
Silver	50.0	51.4	103				
Sodium	12500	12800	103				
Thallium	2000	2040	102				
Vanadium	500	525	105				
Zinc	500	475	95				

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW611009SD

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No. _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	452		536	B	18.6	E	P
Antimony	4.8	B	18.5	U	285		P
Arsenic	2.9	U	17.7	B			P
Barium	44.1	B	43.0	B	2.5		P
Beryllium	0.2	B	0.5	U	150		P
Cadmium	0.3	B	1.0	U	233		P
Calcium	187000		189000		1.1		P
Chromium	1.9	B	4.4	B	132		P
Cobalt	1.7	B	2.0	U	17.6		P
Copper	22.2	B	6.0	U	73	E	P
Iron	2430		2400		1.2		P
Lead	22.1		13.8	B	37.6	E	P
Magnesium	30000		29300		2.3		P
Manganese	527		525		.4		P
Nickel	4.3	B	4.1	B	4.7		P
Potassium	6950		6380	B	8.2		P
Selenium	44.0	U	22.0	U			P
Silver	4.0	U	2.0	U			P
Sodium	27000		25900		4.1		P
Thallium	26.0	U	13.0	U			P
Vanadium	2.1	B	7.2	B	243		P
Zinc	7.3	B	3.0	U	58.9	E	P

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW611009(DISS)SD

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No. _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	258	U	129	U			P
Antimony	4.5	B	18.5	U	311		P
Arsenic	29.0	U	14.5	U			P
Barium	39.4	B	36.9	B	6.3		P
Beryllium	0.1	B	0.5	U	400		P
Cadmium	0.3	B	1.0	U	233		P
Calcium	191000		194000		1.6		P
Chromium	1.1	B	4.0	U	264		P
Cobalt	1.4	B	2.0	U	42.9		P
Copper	8.0	B	6.0	U	25		P
Iron	187		149	B	20.3	E	P
Lead	15.0	U	7.5	U			P
Magnesium	29100		28900		.7		P
Manganese	485		545		12.4	E	P
Nickel	4.2	B	5.3	B	26.2		P
Potassium	6990		6620	B	5.3		P
Selenium	44.0	U	22.0	U			P
Silver	4.0	U	2.0	U			P
Sodium	27900		27000		3.2		P
Thallium	26.0	U	13.0	U			P
Vanadium	1.2	B	4.0	U	233		P
Zinc	6.0	U	3.0	U			P

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: ICP5 Study Date: 04/30/03

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.210		200	25.8	P
Antimony	206.830		60	3.7	P
Arsenic	193.700		10	2.9	P
Barium	233.520		200	.3	P
Beryllium	313.100		5	.1	P
Cadmium	214.430		5	.2	P
Calcium	315.880		5000	7.5	P
Chromium	267.710		10	.8	P
Cobalt	228.610		50	.4	P
Copper	324.750		25	1.2	P
Iron	259.940		100	14.1	P
Lead	220.350		3	1.5	P
Magnesium	279.080		5000	36.7	P
Manganese	257.610		15	.2	P
Nickel	231.600		40	.7	P
Potassium	766.480		5000	42.1	P
Selenium	196.030		5	4.4	P
Si ver	328.060		10	.4	P
Sodium	589.580		5000	45.4	P
Thallium	190.800		10	2.6	P
Vanadium	290.880		50	.8	P
Zinc	213.860		20	.6	P

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ANALYSIS RUN LOG

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/25/04 End Date: 03/25/04

				Analyte Symbols																							
EPA Sample No.	D/F	Time	% R	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
ICV	1	1030			X	X		X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	
ICV2	1	1036		X			X													X			X				
ICB	1	1043		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1050			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1057		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1103		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1109		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1115			X																						
CCB	1	1122		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB154054	1	1129		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611009	1	1136		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61DUP1009	1	1143		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611009SD	5	1149		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW581009	1	1156		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW58DUP1009	1	1203		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW631009	1	1209		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW06R1009	1	1215		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW07R1009	1	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW591009	1	1227		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1236		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1243			X																						
CCB	1	1250		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW601009	1	1257		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW62A1009	1	1303		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW641009	1	1309		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGWFB1009	1	1315		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61MS1009	1	1322		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/25/04 End Date: 03/25/04

				Analyte Symbols																						
EPA Sample No.	D/F	Time	% R	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
SKGW611009PDS	1	1328		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS154055	1	1334		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1340			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1347		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1353		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1359		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1405			X																						
CCB	1	1412		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB154057	1	1420		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611009(DISS)	1	1427		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61DUP1009 (DISS)	1	1434		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611009(DISS)SD	5	1441		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW581009(DISS)	1	1448		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW58DUP1009(DISS)	1	1455		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW631009(DISS)	1	1502		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW06R1009 (DISS)	1	1509		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW07R1009 (DISS)	1	1516		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW591009 (DISS)	1	1522		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1529		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1535			X																						
CCB	1	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW601009 (DISS)	1	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW62A1009 (DISS)	1	1556		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW641009 (DISS)	1	1602		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGWFB1009 (DISS)	1	1609		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61MS1009(DISS)	1	1616		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611009(DISS)PDS	1	1622		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

RESUBMITTED

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/25/04 End Date: 03/25/04

				Analyte Symbols																						
EPA Sample No.	**D/F**	**Time**	**% R**	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
LCS154058	1	1629		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1635			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1642		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1648		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1655		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1701			X																						
CCB	1	1708		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204032408

PROJECT MANAGER: Ron Rolker

Date: May 25, 2004

Revised Date: August 26, 2005

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

CASE NARRATIVE

The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240805	SKSW51DUP1009
20403240806	SKSW521009
20403240807	SKSW531009
20403240808	SKSWEB1009 (DISS)
20403240809	SKSW511009 (DISS)
20403240810	SKSW51MS1009 (DISS)
20403240811	SKSW51DUP1009 (DISS)
20403240812	SKSW521009 (DISS)
20403240813	SKSW531009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKSW511009 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the dissolved fraction were within the acceptance criteria (<20%) for all target compounds. The Relative Percent Difference (RPD) between the sample and duplicate results for the total fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Aluminum, Arsenic, Barium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, and Zinc. As per the National Functional Guidelines, if the result from a duplicate analysis for a particular analyte falls outside the appropriate fixed control windows; qualify the results for that analyte in all associated samples of the same matrix as estimated (J).

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSW511009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Antimony (35%), Arsenic (151%), Selenium (0%), and Zinc (128%) in the total fraction and Arsenic (128%) and Selenium (0%) in the dissolved fraction.

As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Aluminum, Barium, Chromium, Iron, Magnesium, Nickel, Potassium, and Vanadium in the total fraction. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Manganese in the dissolved fraction. As per the National Functional Guidelines: if the required 10% Difference criteria are not met qualify the associated data as estimated "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

GCAL qualified the total metal results for Beryllium, Cadmium, Cobalt, Mercury and Potassium with (*) on the Form 1's to indicate that the RPD between the original results and its duplicate result exceeded the control limit. The RPD was actually within the control limit therefore the data validator crossed out the (*) with a single line and dated and initialed the bottom of the report.

11. OVERALL ASSESSMENT

The percent recoveries for Copper in the Contract Required Detection Limit (CRDL) standards were 80%, 77% and 78%.

If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Di-n-octylphthalate and Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

B. Continuing Calibration

One CC dated 4/7/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 4/7/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 4/7/04 were within the acceptance criteria with the exception the %D for Di-n-butylphthalate and Di-n-octylphthalate. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank (0325SBLK)

Di-n-butylphthalate was detected at a concentration of 0.851 ppb in method blank 0322SBLK.

Equipment Blank (SKSWEB1009)

Di-n-butylphthalate was detected at a concentration of 0.904 ppb in the equipment blank collected on 3/22/04. The Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's. GCAL also inadvertently left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204032408 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on two GC/MS system, identified as MSV0 and MSV2. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/23/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 3/23/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

One CC dated 3/23/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

One laboratory volatile method blank, storage blank, and Equipment Blank were analyzed with this SDG. The results are summarized below.

MB154405

1,2-Dichlorobenzene was detected at a concentration of 0.17 ppb in the method blank analyzed on 3/24/04.

Storage Blank (VHBLK01)

No compounds were detected above the MDL in the storage blank analyzed on 3/24/04.

Trip Blank

There was no Trip Blank submitted for this sampling event.

Equipment Blank (SKSWEB1009)

Acetone, Methylene chloride and Toluene were detected at concentrations of 2.8 ppb, 0.47 ppb and 1.1 ppb respectively in the equipment blank collected on 3/22/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91). GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently transposed the area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. The data validator corrected the mistake by drawing arrows to indicate the correct area counts and retention times for IS Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204032408 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204032408.

GCAL #	Sample Description
20403240801	SKSWEB1009
20403240802	SKSW511009
20403240803	SKSW51MS1009
20403240804	SKSW51MSD1009
20403240806	SKSW521009
20403240807	SKSW531009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank and Equipment Blank were analyzed with this SDG. The results are summarized below.

Method Blank 155051

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/26/04.

Equipment Blank SKSWEB1009

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 3/22/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of 4,4'-DDT (130%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 04/16/2004

GCAL Report 204032408

RESUBMITTED

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

CASE NARRATIVE

Client: Earth Tech **Report:** 204032408

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

In the ILM04.1 CLP metals, Forms I, II, III, V, VI, VII, IX, X, and XIV were resubmitted 07/28/2005 to report TAL metals.

SEMI-VOLATILES MASS SPECTROMETRY

The MS/MSD recoveries for 4-Nitrophenol are above the control limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florisil check analysis, the recovery for DDT was above recovery limit, however DDT was not detected in the associated samples.

METALS

Barium, Chromium, Iron, and Nickel are flagged as estimated for samples associated with prep batch 271292 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected. In the ILM04.1 - CLP Metals analysis, the MS recovery was outside the control limits for Antimony, Arsenic, Selenium, and Zinc. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 109% for Antimony, 131% for Arsenic, 64% for Selenium, and 139% for Zinc. The MS recovery is not applicable for Aluminum, Manganese, Iron, and Lead because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Aluminum, Arsenic, Barium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Vanadium, and Zinc was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

In the ILM04.1 - CLP Metals analysis for prep batch 271294, the MS recovery was outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 106% for Arsenic and 94% for Selenium. The Sample/Duplicate RPD for Vanadium is not applicable because the sample and/or duplicate concentration are less than five times the reporting limit.

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240801

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U	*,E	P	
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	2.9	U	N,*	P	
7440-39-3	Barium	0.3	B	*,E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	34.9	B	*	P	J
7440-47-3	Chromium	1.0	B	*,E	P	J
7440-48-4	Cobalt	0.4	B		P	
7440-50-8	Copper	6.5	B	*	P	J
7439-89-6	Iron	37.8	B	*,E	P	J
7439-92-1	Lead	1.5	U	*	P	
7439-95-4	Magnesium	36.7	U	*,E	P	
7439-96-5	Manganese	0.4	B	*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.4	B	*,E	P	J
7440-09-7	Potassium	42.1	U	,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.2	B		P	
7440-23-5	Sodium	45.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U	E	P	
7440-66-6	Zinc	9.7	B	N,*	P	J
57-12-5	Cyanide	0.5	U		AS	

5/24/05 MSR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000337

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511009
5D

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240802

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	62300		*,E	P	I
7440-36-0	Antimony	7.3	B	N	P	J
7440-38-2	Arsenic	50.7		N,*	P	J
7440-39-3	Barium	499		*,E	P	J
7440-41-7	Beryllium	4.9	B	/	P	
7440-43-9	Cadmium	5.0		/	P	
7440-70-2	Calcium	427000		*	P	J
7440-47-3	Chromium	72.6		*,E	P	J
7440-48-4	Cobalt	59.7		/	P	
7440-50-8	Copper	131		*	P	J
7439-89-6	Iron	124000		*,E	P	J
7439-92-1	Lead	122		*	P	J
7439-95-4	Magnesium	80300		*,E	P	J
7439-96-5	Manganese	5690		*	P	J
7439-97-6	Mercury	0.1	B	/	AV	
7440-02-0	Nickel	116		*,E	P	J
7440-09-7	Potassium	12200		/,E	P	J
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	60200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	105		E	P	J
7440-66-6	Zinc	490		N,*	P	J
57-12-5	Cyanide	0.8	B		AS	

8/29/05
MSN

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000338

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW01MS1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240803

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82700		*,E	P
7440-36-0	Antimony	41.9	B	N	P
7440-38-2	Arsenic	111		N,*	P
7440-39-3	Barium	2580		*,E	P
7440-41-7	Beryllium	56.9			P
7440-43-9	Cadmium	51.6			P
7440-70-2	Calcium	587000		*	P
7440-47-3	Chromium	284		*,E	P
7440-48-4	Cobalt	545			P
7440-50-8	Copper	436		*	P
7439-89-6	Iron	168000		*,E	P
7439-92-1	Lead	183		*	P
7439-95-4	Magnesium	101000		*,E	P
7439-96-5	Manganese	8350		*	P
7439-97-6	Mercury	5.8			AV
7440-02-0	Nickel	619		*,E	P
7440-09-7	Potassium	13900		*,E	P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	46.3			P
7440-23-5	Sodium	58900			P
7440-28-0	Thallium	56.7			P
7440-62-2	Vanadium	614		E	P
7440-66-6	Zinc	1130		N,*	P
57-12-5	Cyanide	87.8			AS

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000339

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51DUP1009
50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240805

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	88100		*,E	P	J
7440-36-0	Antimony	6.7	B	N	P	J
7440-38-2	Arsenic	67.0		N,*	P	J
7440-39-3	Barium	714		*,E	P	J
7440-41-7	Beryllium	6.7			P	
7440-43-9	Cadmium	7.2			P	
7440-70-2	Calcium	603000		*	P	J
7440-47-3	Chromium	102		*,E	P	J
7440-48-4	Cobalt	83.4			P	
7440-50-8	Copper	174		*	P	J
7439-89-6	Iron	173000		*,E	P	J
7439-92-1	Lead	169		*	P	J
7439-95-4	Magnesium	102000		*,E	P	J
7439-96-5	Manganese	7950		*	P	J
7439-97-6	Mercury	0.3			AV	
7440-02-0	Nickel	162		*,E	P	J
7440-09-7	Potassium	17000		,E	P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	60100			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	145		E	P	J
7440-66-6	Zinc	679		N,*	P	J
57-12-5	Cyanide	1.1	B		AS	

8/29/05 mw

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000340
RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521009
5\

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240806

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9250		*,E	P	J
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	11.1		N,*	P	J
7440-39-3	Barium	112	B	*,E	P	J
7440-41-7	Beryllium	0.7	B		P	
7440-43-9	Cadmium	0.5	B		P	
7440-70-2	Calcium	153000		*	P	J
7440-47-3	Chromium	12.7		*,E	P	J
7440-48-4	Cobalt	7.8	B		P	
7440-50-8	Copper	22.0	B	*	P	J
7439-89-6	Iron	17800		*,E	P	J
7439-92-1	Lead	17.3		*	P	J
7439-95-4	Magnesium	38900		*,E	P	J
7439-96-5	Manganese	685		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	16.4	B	*,E	P	J
7440-09-7	Potassium	4470	B	,E	P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	61800			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	18.7	B	E	P	J
7440-66-6	Zinc	52.9		N,*	P	J
57-12-5	Cyanide	0.6	B		AS	

8/29/05
MJL

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW[illegible]1009

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240807

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	26.8	B	*,E	P	J
7440-36-0	Antimony	3.7	U	N	P	UJ
7440-38-2	Arsenic	2.9	U	N,*	P	
7440-39-3	Barium	41.7	B	*,E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	108000		*	P	J
7440-47-3	Chromium	1.7	B	*,E	P	J
7440-48-4	Cobalt	0.5	B		P	
7440-50-8	Copper	3.2	B	*	P	J
7439-89-6	Iron	67.8	B	*,E	P	J
7439-92-1	Lead	1.5	U	*	P	
7439-95-4	Magnesium	31100		*,E	P	J
7439-96-5	Manganese	3.2	B	*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	B	*,E	P	J
7440-09-7	Potassium	1900	B	,E	P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.6	B		P	
7440-23-5	Sodium	61200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.2	B	E	P	J
7440-66-6	Zinc	0.6	U	N,*	P	
57-12-5	Cyanide	0.5	U		AS	

5/25/05 mc

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000342

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1009 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240808

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.8	U		P
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U	N	P
7440-39-3	Barium	0.4	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	60.8	B		P
7440-47-3	Chromium	0.8	U		P
7440-48-4	Cobalt	0.4	U		P
7440-50-8	Copper	4.2	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-95-4	Magnesium	36.7	U		P
7439-96-5	Manganese	0.2	U	E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	U		P
7440-09-7	Potassium	42.1	U		P
7782-49-2	Selenium	4.4	U	N	P R
7440-22-4	Silver	0.4	U		P
7440-23-5	Sodium	308	B		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	0.8	U		P
7440-66-6	Zinc	5.6	B		P

3/29/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000343

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511009 (DISS)
50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240809

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U	N	P	
7440-39-3	Barium	35.8	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	103000			P	
7440-47-3	Chromium	1.6	B		P	
7440-48-4	Cobalt	0.4	B		P	
7440-50-8	Copper	4.3	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	29700			P	
7439-96-5	Manganese	30.0		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.0	B		P	
7440-09-7	Potassium	2980	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	59200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.2	B		P	
7440-66-6	Zinc	0.6	U		P	

8/29/06 MN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000344

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51MS1009 (DISS)
50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240810

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2190			P	
7440-36-0	Antimony	124			P	
7440-38-2	Arsenic	51.2		N	P	J
7440-39-3	Barium	2140			P	
7440-41-7	Beryllium	55.8			P	
7440-43-9	Cadmium	52.5			P	
7440-70-2	Calcium	105000			P	
7440-47-3	Chromium	212			P	
7440-48-4	Cobalt	515			P	
7440-50-8	Copper	291			P	
7439-89-6	Iron	1110			P	
7439-92-1	Lead	19.0			P	
7439-95-4	Magnesium	30300			P	
7439-96-5	Manganese	562		E	P	J
7439-97-6	Mercury	5.8			AV	
7440-02-0	Nickel	519			P	
7440-09-7	Potassium	2790	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	55.0			P	
7440-23-5	Sodium	59800			P	
7440-28-0	Thallium	50.2			P	
7440-62-2	Vanadium	537			P	
7440-66-6	Zinc	504			P	

8/29/05 MG

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000345

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW5DUP1009 (DISS)
50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240811

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U	N	P	
7440-39-3	Barium	33.0	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	101000			P	
7440-47-3	Chromium	1.4	B		P	
7440-48-4	Cobalt	0.4	B		P	
7440-50-8	Copper	1.6	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	29100			P	
7439-96-5	Manganese	29.7		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.0	B		P	
7440-09-7	Potassium	2670	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	57300			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.7	B		P	
7440-66-6	Zinc	0.6	U		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000346

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521009 (DISS)
51

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240812

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U	N	P	
7440-39-3	Barium	36.7	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	106000			P	
7440-47-3	Chromium	1.7	B		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	3.0	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	31500			P	
7439-96-5	Manganese	29.9		E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.4	B		P	
7440-09-7	Potassium	2160	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	60200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.4	B		P	
7440-66-6	Zinc	3.4	B		P	

8/29/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000347

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW581009 (DISS)
52

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID: 20403240813

Level: (low / med) Date Received: 03/24/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U	N	P	
7440-39-3	Barium	40.7	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	107000			P	
7440-47-3	Chromium	1.3	B		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	2.0	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	30700			P	
7439-96-5	Manganese	1.5	B	E	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7440-09-7	Potassium	1900	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	61400			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	1.9	B		P	
7440-66-6	Zinc	4.5	B		P	

8/29/05
MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000348
RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/29/04 Time: 1215

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	120	133	111	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	22.2	111	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.60	96	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	19.8	99	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	94.7	95	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	40.0	80	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.10	84	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	27.6	92	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	76.7	96	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	10.3	103	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	19.9	100	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	22.4	112	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	96.4	96	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	35.5	89	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/29/04 Time: 1506

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	130	108	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	23.2	116	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.60	96	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	19.9	100	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	94.3	94	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	38.5	77	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.40	90	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	27.9	93	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	76.8	96	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	10.0	100	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.0	105	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	19.6	98	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	98.2	98	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	35.0	87	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/29/04 Time: 1605

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	130	109	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	20.4	102	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.60	96	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.2	101	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	95.4	95	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	39.1	78	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.00	83	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	27.8	93	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	77.6	97	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	9.10	91	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	20.9	104	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	20.4	102	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	97.2	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	35.3	88	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Calibration Source: 106-58-5 EXAXOL Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 03/31/04 Time: 1540

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.200	0.200	106	ug/L	ILM04.1 CLP HG	AV

000352A

ADDITION

U.S. EPA - CLP

3

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	25.8	U	25.8	U	25.8	U	25.8	U	25.800	U	P
Antimony	8.8	B	4.3	B	3.7	U	5.5	B	3.700	U	P
Arsenic	2.9	U	2.9	U	2.9	U	2.9	U	2.900	U	P
Barium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	1.3	B	1.1	B	0.2	U	1.6	B	0.200	U	P
Calcium	7.5	U	7.5	U	7.5	U	7.5	U	7.500	U	P
Chromium	0.8	U	0.8	U	0.8	U	0.8	U	1.199	B	P
Cobalt	0.4	U	0.4	U	0.4	U	0.5	B	0.822	B	P
Copper	19.9	B	20.5	B	5.2	B	9.9	B	17.654	B	P
Iron	14.1	U	14.1	U	14.1	U	14.1	U	14.100	U	P
Lead	1.5	B	1.5	U	1.5	U	1.5	U	1.500	U	P
Magnesium	36.7	U	36.7	U	36.7	U	45.5	B	36.700	U	P
Manganese	-1	B	-1.5	B	0.2	U	-1.7	B	-1.587	B	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	AV
Nickel	0.7	U	0.7	U	0.7	U	0.7	U	1.794	B	P
Potassium	42.1	U	42.1	U	42.1	U	42.1	U	42.100	U	P
Selenium	4.4	U	4.4	U	4.4	U	4.4	U	4.400	U	P
Silver	0.4	U	0.4	B	0.7	B	0.8	B	1.381	B	P
Sodium	45.4	U	45.4	U	45.4	U	45.4	U	45.400	U	P
Thallium	2.6	U	2.6	U	2.6	U	2.6	U	2.600	U	P
Vanadium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Zinc	2.6	B	3.6	B	1.0	B	1.2	B	7.236	B	P
Cyanide	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	AS

000353

RESUBMITTED

U.S. EPA - CLP

3

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	5	C	6	C	Prepa-ration Blank	C	M
Aluminum			25.8	U					25.800	U	P
Antimony			5.2	B					3.700	U	P
Arsenic			2.9	U					2.900	U	P
Barium			0.3	U					0.300	U	P
Beryllium			0.1	U					0.100	U	P
Cadmium			1.5	B					0.200	U	P
Calcium			7.5	U					7.500	U	P
Chromium			0.8	B					0.800	U	P
Cobalt			0.4	U					0.475	B	P
Copper			13.5	B					5.096	B	P
Iron			-16.1	B					14.100	U	P
Lead			1.5	U					1.500	U	P
Magnesium			53.8	B					36.700	U	P
Manganese			-1.7	B					-0.2201	B	P
Mercury									0.100	U	AV
Nickel			0.7	U					0.730	B	P
Potassium			42.1	U					42.100	U	P
Selenium			4.4	U					4.400	U	P
Silver			1.0	B					0.400	U	P
Sodium			45.4	U					45.400	U	P
Thallium			2.6	U					2.600	U	P
Vanadium			0.8	U					0.800	U	P
Zinc			2.4	B					5.815	B	P
Cyanide			0.5	U							AS

000354

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW51MS1009

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204032408

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20403240802 Original Lab Sample ID: 20403240803

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Aluminum			82700		62300		2000	1020		P
Antimony	75	125	41.9	B	7.3	B	100	35	N	P
Arsenic	75	125	111		50.7		40.0	151	N	P
Barium	75	125	2580		499		2000	104		P
Beryllium	75	125	56.9		4.9	B	50.0	104		P
Cadmium	75	125	51.6		5.0		50.0	93		P
Chromium	75	125	284		72.6		200	106		P
Cobalt	75	125	545		59.7		500	97		P
Copper	75	125	436		131		250	122		P
Iron			168000		124000		1000	4410		P
Lead			183		122		20.0	306		P
Manganese			8350		5690		500	532		P
Mercury	75	125	5.8		0.1	B	5.0	113		AV
Nickel	75	125	619		116		500	101		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	46.3		0.4	U	50.0	93		P
Thallium	75	125	56.7		2.6	U	50.0	113		P
Vanadium	75	125	614		105		500	102		P
Zinc	75	125	1130		490		500	128	N	P
Cyanide	75	125	87.8		0.8	B	100	87		AS

Comments:

000357
RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW51MS1009 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204032408

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20403240809 Original Lab Sample ID: 20403240810

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	*Control Limit %R*		*Spiked Sample Result (SSR)*	*C*	*Sample Result (SR)*	*C*	*Spike Added (SA)*	*% R*	*Q*	*M*
Aluminum	75	125	2190		25.8	U	2000	110		P
Antimony	75	125	124		3.7	U	100	124		P
Arsenic	75	125	51.2		2.9	U	40.0	128	N	P
Barium	75	125	2140		35.8	B	2000	105		P
Beryllium	75	125	55.8		0.1	U	50.0	112		P
Cadmium	75	125	52.5		0.2	U	50.0	105		P
Chromium	75	125	212		1.6	B	200	105		P
Cobalt	75	125	515		0.4	B	500	103		P
Copper	75	125	291		4.3	B	250	115		P
Iron	75	125	1110		14.1	U	1000	111		P
Lead	75	125	19.0		1.5	U	20.0	95		P
Manganese	75	125	562		30.0		500	106		P
Mercury	75	125	5.8		0.1	U	5.0	116		AV
Nickel	75	125	519		1.0	B	500	104		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	55.0		0.4	U	50.0	110		P
Thallium	75	125	50.2		2.6	U	50.0	100		P
Vanadium	75	125	537		2.2	B	500	107		P
Zinc	75	125	504		0.6	U	500	101		P

Comments:

000358

RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW511009PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204032408

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 20403240802 Lab Sample ID:: 155382

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	*Control Limit %R*		*Spiked Sample Result (SSR)*	*C*	*Sample Result (SR)*	*C*	*Spike Added (SA)*	*% R*	*Q*	*M*
Antimony			137		7.3	B	120	109		P
Arsenic			77.0		50.7		20.0	131		P
Beryllium			15.9		4.9	B	10.0	110		P
Cadmium			14.5		5.0		10.0	95		P
Chromium			104		72.6		20.0	159		P
Cobalt			156		59.7		100	97		P
Copper			186		131		50.0	109		P
Lead			128		122		6.0	100		P
Manganese			5700		5690		30.0	40		P
Nickel			195		116		80.0	98		P
Selenium			6.4		4.4	U	10.0	64		P
Silver			17.6		0.4	U	20.0	88		P
Thallium			25.8		2.6	U	20.0	129		P
Vanadium			230		105		100	124		P
Zinc			545		490		40.0	139		P

Comments:

000359
RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW511009 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204032408

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 20403240809 Lab Sample ID:: 155384

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Antimony			145		3.7	U	120	121		P
Arsenic			21.2		2.9	U	20.0	106		P
Beryllium			11.1		0.1	U	10.0	111		P
Cadmium			10.1		0.2	U	10.0	101		P
Chromium			22.8		1.6	B	20.0	106		P
Cobalt			102		0.4	B	100	101		P
Copper			66.8		4.3	B	50.0	125		P
Lead			2.8	B	1.5	U	6.0	47		P
Manganese			61.2		30.0		30.0	104		P
Nickel			82.4		1.0	B	80.0	102		P
Selenium			9.4		4.4	U	10.0	94		P
Silver			22.7		0.4	U	20.0	113		P
Thallium			13.0		2.6	U	20.0	65		P
Vanadium			109		2.2	B	100	106		P
Zinc			40.8		0.6	U	40.0	102		P

Comments:

000360

RESUBMITTED

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6

DUPLICATES

EPA SAMPLE NO

SKSW51DUP1009

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204032408

Matrix: (soil / water) Water

% Solids for Sample: Lab Sample ID 20403240805

% Solids for Duplicate: Original Lab Sample 20403240802

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	0 - 20	62300		88100		34	*	P
Antimony	-	7.3	B	6.7	B	9		P
Arsenic	0 - 20	50.7		67.0		28	*	P
Barium	0 - 200	499		714		215.06	*	P
Beryllium	0 - 5	4.9	B	6.7		1.7832		P
Cadmium	0 - 5	5.0		7.2		2.1793		P
Calcium	0 - 20	427000		603000		34	*	P
Chromium	0 - 20	72.6		102		34	*	P
Cobalt	0 - 50	59.7		83.4		23.689		P
Copper	0 - 20	131		174		28	*	P
Iron	0 - 20	124000		173000		33	*	P
Lead	0 - 20	122		169		32	*	P
Magnesium	0 - 20	80300		102000		24	*	P
Manganese	0 - 20	5690		7950		33	*	P
Mercury	0 - .2	0.1	B	0.3		.19198		AV
Nickel	0 - 40	116		162		45.665	*	P
Potassium	0 - 5000	12200		17000		4784.0		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.4	U	0.4	U	0		P
Sodium	0 - 20	60200		60100		.2		P
Thallium	-	2.6	U	2.6	U	0		P
Vanadium	0 - 50	105		145		39.768		P
Zinc	0 - 20	490		679		32	*	P
Cyanide	-	0.8	B	1.1	B	32		AS

000361

RESUBMITTED

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6
DUPLICATES

EPA SAMPLE NO
SKSW51DUP1009 (DISS)

Lab Name: GCAL
Lab Code: LA024 SDG No.: 204032408
Matrix: (soil / water) Water
% Solids for Sample: Lab Sample ID 20403240811
% Solids for Duplicate: Original Lab Sample 20403240809

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	-	25.8	U	25.8	U	0		P
Antimony	-	3.7	U	3.7	U	0		P
Arsenic	-	2.9	U	2.9	U	0		P
Barium	-	35.8	B	33.0	B	8		P
Beryllium	-	0.1	U	0.1	U	0		P
Cadmium	-	0.2	U	0.2	U	0		P
Calcium	0 - 20	103000		101000		2		P
Chromium	-	1.6	B	1.4	B	13		P
Cobalt	-	0.4	B	0.4	B	0		P
Copper	-	4.3	B	1.6	B	92		P
Iron	-	14.1	U	14.1	U	0		P
Lead	-	1.5	U	1.5	U	0		P
Magnesium	0 - 20	29700		29100		2		P
Manganese	0 - 15	30.0		29.7		.33702		P
Mercury	-	0.1	U	0.1	U	0		AV
Nickel	-	1.0	B	1.0	B	0		P
Potassium	-	2980	B	2670	B	11		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.4	U	0.4	U	0		P
Sodium	0 - 20	59200		57300		3		P
Thallium	-	2.6	U	2.6	U	0		P
Vanadium	-	2.2	B	1.7	B	26		P
Zinc	-	0.6	U	0.6	U	0		P

000362
RESUBMITTED

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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Solid LCS Source: Lab Sample ID: 154787

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2150	107				
Antimony	500	572	114				
Arsenic	2000	2190	109				
Barium	2000	2070	104				
Beryllium	50.0	54.7	109				
Cadmium	50.0	51.1	102				
Calcium	12500	12900	103				
Chromium	200	205	103				
Cobalt	500	504	101				
Copper	250	280	112				
Iron	1000	1110	111				
Lead	500	523	105				
Magnesium	12500	12500	100				
Manganese	500	523	105				
Nickel	500	512	102				
Potassium	12500	12400	99				
Selenium	2000	2200	110				
Silver	50.0	54.0	108				
Sodium	12500	13200	106				
Thallium	2000	2100	105				
Vanadium	500	526	105				
Zinc	500	502	100				

000363
RESUBMITTED

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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Lab Sample ID: 154791

Solic LCS Source:

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2130	106				
Antimony	500	578	116				
Arsenic	2000	2190	109				
Barium	2000	2070	103				
Beryllium	50.0	54.6	109				
Cadmium	50.0	51.2	102				
Calcium	12500	13000	104				
Chromium	200	205	102				
Cobalt	500	503	101				
Copper	250	279	112				
Iron	1000	1050	105				
Lead	500	520	104				
Magnesium	12500	12600	101				
Manganese	500	520	104				
Nickel	500	510	102				
Potassium	12500	12500	100				
Selenium	2000	2190	110				
Silver	50.0	53.8	108				
Sodium	12500	13400	107				
Thallium	2000	2090	105				
Vanadium	500	527	105				
Zinc	500	495	99				

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW511009SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID 155381

Original Lab Sample ID 20403240802

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	62300		131000		110.3	E	P
Antimony	7.3	B	18.5	U	153.4		P
Arsenic	50.7		69.6		37.3		P
Barium	499		837	B	67.7	E	P
Beryllium	4.9	B	7.4	B	51.0		P
Cadmium	5.0		4.4	B	12.0		P
Calcium	427000		462000		8.2		P
Chromium	72.6		135		86.0	E	P
Cobalt	59.7		61.0	B	2.2		P
Copper	131		143		9.2		P
Iron	124000		148000		19.4	E	P
Lead	122		121		0.8		P
Magnesium	80300		90500		12.7	E	P
Manganese	5690		6180		8.6		P
Nickel	116		132	B	13.8	E	P
Potassium	12200		41600		241.0	E	P
Selenium	4.4	U	22.0	U			P
Silver	0.4	U	2.0	U			P
Sodium	60200		61500		2.2		P
Thallium	2.6	U	13.0	U			P
Vanadium	105		221	B	110.5	E	P
Zinc	490		489		0.2		P

000366

RESUBMITTED

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW511009 (DISS)SD

Lab Name: GCAL

Lab Coce: LA024 Case No. SDG No.: 204032408

Matrix: (soil / water) Water Lab Sample ID 155383

Original Lab Sample ID 20403240809

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	25.8	U	129	U			P
Antimony	3.7	U	18.5	U			P
Arsenic	2.9	U	14.5	U			P
Barium	35.8	B	34.8	B	2.8		P
Beryllium	0.1	U	0.5	U			P
Cadmium	0.2	U	1.0	U			P
Calcium	103000		104000		1.0		P
Chromium	1.6	B	4.0	U	150.0		P
Cobalt	0.4	B	2.0	U			P
Copper	4.3	B	6.0	U	39.5		P
Iron	14.1	U	70.5	U			P
Lead	1.5	U	7.5	U			P
Magnesium	29700		29700		0.0		P
Manganese	30.0		23.4	B	22.0	E	P
Nickel	1.0	B	4.3	B	330.0		P
Potassium	2980	B	2790	B	6.4		P
Selenium	4.4	U	22.0	U			P
Silver	0.4	U	2.0	U			P
Sodium	59200		57100		3.5		P
Thallium	2.6	U	13.0	U			P
Vanadium	2.2	B	4.0	U	81.8		P
Zinc	0.6	U	3.0	U			P

000367

RESUBMITTED

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10

INSTRUMENT DETECTION LIMITS

Lab Name: GCAL

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 204032408

Instrument ID: ICP5 Study Date: 04/30/03

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.210		200	25.8	P
Antimony	206.830		60	3.7	P
Arsenic	193.700		10	2.9	P
Barium	233.520		200	.3	P
Beryllium	313.100		5	.1	P
Cadmium	214.430		5	.2	P
Calcium	315.880		5000	7.5	P
Chromium	267.710		10	.8	P
Cobalt	228.610		50	.4	P
Copper	324.750		25	1.2	P
Iron	259.940		100	14.1	P
Lead	220.350		3	1.5	P
Magnesium	279.080		5000	36.7	P
Manganese	257.610		15	.2	P
Nickel	231.600		40	.7	P
Potassium	766.480		5000	42.1	P
Selenium	196.030		5	4.4	P
Silver	328.060		10	.4	P
Sodium	589.580		5000	45.4	P
Thallium	190.800		10	2.6	P
Vanadium	290.880		50	.8	P
Zinc	213.860		20	.6	P

000363

RESUBMITTED

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ANALYSIS RUN LOG

000379 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/29/04 End Date: 03/29/04

				Analyte Symbols																						
EPA Sample No.	D/F	Time	% R	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
ICV	1	1155			X	X		X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	
ICV2	1	1201		X			X													X			X				
ICB	1	1208		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1215			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1234		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1240			X																						
CCB	1	1248		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB154786	1	1254		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009	1	1301		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW51DUP1009	1	1308		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009SD	5	1314		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWEB1009	1	1320		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW521009	1	1327		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW531009	1	1333		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW51MS1009	1	1340		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009PDS	1	1346		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS154787	1	1352		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1358		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1405			X																						
CCB	1	1412		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB154790	1	1419		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009 (DISS)	1	1425		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW51DUP1009 (DISS)	1	1432		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009 (DISS)SD	5	1439		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWEB1009 (DISS)	1	1446		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

000380 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204032408

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/29/04 End Date: 03/29/04

				Analyte Symbols																						
EPA Sample No.	**D/F**	**Time**	**% R**	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
SKSW521009 (DISS)	1	1453		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW531009 (DISS)	1	1500		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1506			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1513		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1519		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1525		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1532			X																						
CCB	1	1539		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW51MS1009 (DISS)	1	1546		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW511009 (DISS)PDS	1	1552		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS154791	1	1559		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1605			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1612		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1618		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1624		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1630			X																						
CCB	1	1637		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204030804

PROJECT MANAGER: Ron Rolker

Date: May 6, 2004

Revised Report Dated: September 23, 2005

Data Validator: Mark Kromis

APPENDIX C
LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-05	SKSWD03DUP1009
204030804-06	SKSWDEB1009
204030804-08	SKSWD031009 (DISS)
204030804-09	SKSWD03D1009 (DISS)
204030804-10	SKSWD03MS1009 (DISS)
204030804-11	SKSWD03DUP1009 (DISS)
204030804-12	SKSWDEB1009 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, PB, Equipment blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The Relative Percent Difference (RPD) between the sample and duplicate results were within the acceptance criteria for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSWD031009 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Selenium in the total (0%) and dissolved (50%) fractions. As per the National Functional Guidelines: if the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Aluminum and Zinc in the total fraction. As per the National Functional Guidelines, if the required 10% difference criterion is not met then qualify the associated results as estimated with "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order with the exception of Manganese associated with the dissolved fraction. GCAL qualified the Manganese results with an "E" to indicate that the serial dilution percent difference criteria had been exceeded. The initial concentration of Manganese was not greater than 50 times the IDL therefore the analyte did not need to be flagged. The data validator crossed the "E" qualifier out with a single line and initialed and dated the correction.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 101%, 78%, and 123%.

The percent recoveries for Copper in the Contract Required Detection Limit (CRDL) standards were 63.0, 62.9%, and 69.1%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 62%, 64%, and 84%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 76%, 75%, and 81%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV2. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/19/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Di-n-butylphthalate (32.0%), Di-n-octylphthalate (30.3%) and Diethylphthalate (41.8%). The lowest point of the calibration curve was dropped for Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Di-n-butylphthalate, Di-n-octylphthalate, and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

B. Continuing Calibration

One CC dated 3/19/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 3/19/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 3/19/04 were within the acceptance criteria with the exception the %D for Naphthalene. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ".

4. BLANKS

One laboratory semivolatile method blank and equipment bland were analyzed with this SDG. The results are summarized below.

Method Blank (0308SBLK)

There were not target analytes detected in method blank 0308SBLK.

Equipment Blank (SKSWDEB1009)

There were not target analytes detected in method blank SKSWDEB1009 collected on 3/2/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSWD031009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204030804 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009
204030804-07	Trip Blank

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

All samples were analyzed on a single GC/MS system, identified as MSV2. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 3/13/04 was analyzed on Instrument MSV2 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards was present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 3/13/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R).

B. Continuing Calibration

One CC dated 3/13/04 was analyzed on instrument MSV2 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

4. BLANKS

One laboratory volatile method blank, storage blank, Trip Blank, and an Equipment Blank were analyzed with this SDG. The results are summarized below.

V2BLK01 (MB151783)

Methylene chloride, Chloroform and 1,3-Dichlorobenzene were detected at concentrations of 0.12 ppb, 0.38 ppb, and 0.034 ppb respectively in the method blank analyzed on 3/13/04.

Storage Blank (VHBLK01)

Methylene chloride (0.15 ppb) and 1,4-Dichlorobenzene (0.21 ppb) were detected in the storage blank analyzed on 3/13/04.

Trip Blank

Methylene chloride was detected at a concentration of 0.47 ppb in the Trip Blank submitted for the sampling event that occurred on 3/2/04. The Methylene chloride detected in the trip blank was mitigated by the presence of Methylene chloride in the associated method blank.

Equipment Blank (SKSWDEB1009)

Ethylbenzene (0.022 ppb), Methylene chloride (0.4 ppb), Styrene (0.06 ppb) Toluene (0.43 ppb) and total Xylenes (0.11 ppb) were detected in the Equipment Blank collected on 3/2/04. The analytes Ethylbenzene, Styrene, Toluene, and total Xylenes were not detected in the associated samples therefore no data qualification was not required. The Methylene chloride detected in the equipment blank was mitigated by the presence of Methylene chloride in the associated method blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031009 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs with the exception of Ethylbenzene. The Ethylbenzene standard and detected results were originally quantitated using the incorrect quantitation ion (GCAL used 106 instead of 91).

GCAL corrected the mistake and re-submitted the corrected pages that were affected in the laboratory report. The overall effect had no impact in the final result for Ethylbenzene.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the "B" qualifier off of the CLP Form 1's for Methylene chloride therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

13. OVERALL ASSESSMENT

The Acetone detected in sample SKSWD03D1009 could be do to low level contamination because Acetone is a common laboratory contaminant and the fact that Acetone was not detected in the associated duplicate sample. The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204030804 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in March 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204030804.

GCAL #	Sample Description
204030804-01	SKSWD031009
204030804-02	SKSWD03D1009
204030804-03	SKSWD03MS1009
204030804-04	SKSWD03MSD1009
204030804-06	SKSWDEB1009

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits. The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%.

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

5. BLANKS

One laboratory method blank and equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank 151585

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 3/8/04.

Equipment Blank SKSWDEB1009

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 3/2/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples except for TCX and DCB associated with sample SKSWD031009. There were no target compounds detected in sample SKSWD031009 therefore no action was taken.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

There were no samples submitted for MS/MSD analysis during this sampling event.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup with the exception of Endrin (135%), 4,4'-DDT (139%) and Methoxychlor (121%). There were no target compounds detected in the associated samples therefore no action was taken.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 03/31/2004

GCAL Report 204030804

ADDENDUM

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

CASE NARRATIVE

Client: Earth Tech **Report:** 204030804

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

The ILM04.1 – CLP analysis is resubmitted as an addendum to include an expanded list of compounds at the request of the client. The Addendum includes an updated case narrative.

SEMI-VOLATILES MASS SPECTROMETRY

In the prep batch 270522, the MS/MSD exhibited sporadic recovery failures.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Pesticide Florisil check analysis, the recoveries for Endrin, 4,4-DDT and Methoxychor were above recovery limits; however, these compounds were not detected in the associated samples.

In the Pesticide analysis for sample 20403080401 (SKSWD031009), the surrogate Tetrachloro-m-xylene and Decachlorobiphenyl are above the control limits.

METALS

In the ILM04.1 - CLP Metals analysis for prep batches 270882 and 270883, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for these batches with a recovery of 88% and 99%.

Zinc is flagged as estimated for samples associated with prep batch 270882 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

Aluminum and Manganese is flagged as estimated for samples associated with prep batch 270883 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080401

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1800		E	P	J
7440-36-0	Antimony	5.2	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	40.0	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	131000			P	
7440-47-3	Chromium	1.4	B		P	
7440-48-4	Cobalt	1.5	B		P	
7440-50-8	Copper	11.0	B		P	J
7439-89-6	Iron	2200			P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	31600			P	
7439-96-5	Manganese	87.5			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.5	B		P	
7440-09-7	Potassium	4170	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	12600			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.2	B		P	
7440-66-6	Zinc	14.6	B	E	P	J
57-12-5	Cyanide	0.8	B		AS	

9/23/05
msa

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000261

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03D1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080402

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1750		E	P	J
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	5.3	B		P	
7440-39-3	Barium	39.1	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	124000			P	
7440-47-3	Chromium	1.3	B		P	
7440-48-4	Cobalt	1.2	B		P	
7440-50-8	Copper	4.5	B		P	J
7439-89-6	Iron	2220			P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	30200			P	
7439-96-5	Manganese	90.9			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.8	B		P	
7440-09-7	Potassium	3960	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	12200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.2	B		P	
7440-66-6	Zinc	7.2	B	E	P	J
57-12-5	Cyanide	2.5	B		AS	

9/23/04 msi

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000262

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03MS1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080403

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3820		E	P	J
7440-36-0	Antimony	109			P	
7440-38-2	Arsenic	48.3			P	
7440-39-3	Barium	1980			P	
7440-41-7	Beryllium	49.6			P	
7440-43-9	Cadmium	48.0			P	
7440-70-2	Calcium	125000			P	
7440-47-3	Chromium	197			P	
7440-48-4	Cobalt	461			P	
7440-50-8	Copper	247			P	J
7439-89-6	Iron	3090			P	
7439-92-1	Lead	18.3			P	J
7439-95-4	Magnesium	30700			P	
7439-96-5	Manganese	573			P	
7439-97-6	Mercury	4.9			AV	
7440-02-0	Nickel	464			P	
7440-09-7	Potassium	4040	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	47.7			P	
7440-23-5	Sodium	12100			P	
7440-28-0	Thallium	43.2			P	
7440-62-2	Vanadium	499			P	
7440-66-6	Zinc	452		E	P	J
57-12-5	Cyanide	90.9			AS	

9/23/05 mk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000263

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080405

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1940		E	P	J
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	40.8	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	127000			P	
7440-47-3	Chromium	1.6	B		P	
7440-48-4	Cobalt	1.4	B		P	
7440-50-8	Copper	8.4	B		P	J
7439-89-6	Iron	2170			P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	31000			P	
7439-96-5	Manganese	86.7			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.8	B		P	
7440-09-7	Potassium	4130	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	12200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	2.4	B		P	
7440-66-6	Zinc	12.5	B	E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/23/05 MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000264

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1009

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080406

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U	E	P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	27.1	B		P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	3.5	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	36.7	U		P	
7439-96-5	Manganese	0.2	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7440-09-7	Potassium	42.1	U		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	85.3	B		P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	3.7	B	E	P	J
57-12-5	Cyanide	1.9	B		AS	

7/23/05 MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000265

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080408

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	34.6	B		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	5.3	B		P	
7440-39-3	Barium	29.8	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	125000			P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	4.6	B		P	J
7439-89-6	Iron	17.2	B		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	30400			P	
7439-96-5	Manganese	3.0	B	E	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.4	B		P	
7440-09-7	Potassium	3570	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	12200			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/23/05 MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000266

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03D1009 (DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080409

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	4.1	B		P	
7440-39-3	Barium	29.8	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	125000			P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.5	B		P	
7440-50-8	Copper	1.2	U		P	UJ
7439-89-6	Iron	27.7	B		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	30500			P	
7439-96-5	Manganese	3.0	B	E	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.3	B		P	
7440-09-7	Potassium	3560	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	12500			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	0.6	U		P	UJ

9/23/05 MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000267

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03MS1009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080410

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2050			P	
7440-36-0	Antimony	115			P	
7440-38-2	Arsenic	48.7			P	
7440-39-3	Barium	2010			P	
7440-41-7	Beryllium	50.6			P	
7440-43-9	Cadmium	49.6			P	
7440-70-2	Calcium	125000			P	
7440-47-3	Chromium	201			P	
7440-48-4	Cobalt	471			P	
7440-50-8	Copper	247			P	J
7439-89-6	Iron	1020			P	
7439-92-1	Lead	16.9			P	J
7439-95-4	Magnesium	31000			P	
7439-96-5	Manganese	500		E	P	
7439-97-6	Mercury	5.1			AV	
7440-02-0	Nickel	475			P	
7440-09-7	Potassium	3590	B		P	
7782-49-2	Selenium	5.0		N	P	J
7440-22-4	Silver	49.3			P	
7440-23-5	Sodium	12400			P	
7440-28-0	Thallium	42.3			P	
7440-62-2	Vanadium	509			P	
7440-66-6	Zinc	444			P	J

9/23/05
mjn

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000268

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080411

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	38.3	B		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	29.4	B		P	
7440-41-7	Beryllium	0.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	118000			P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	1.7	B		P	
7440-50-8	Copper	12.2	B		P	J
7439-89-6	Iron	21.5	B		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	29100			P	
7439-96-5	Manganese	3.6	B	E	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.7	B		P	
7440-09-7	Potassium	3310	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	11700			P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	6.0	B		P	J

9/23/05 mcw

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000269

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1009(DISS)

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix: (soil / water) Water Lab Sample ID: 20403080412

Level: (low / med) Date Received: 03/06/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25.8	U		P	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-70-2	Calcium	71.9	B		P	
7440-47-3	Chromium	0.8	U		P	
7440-48-4	Cobalt	0.4	U		P	
7440-50-8	Copper	1.2	U		P	UJ
7439-89-6	Iron	22.6	B		P	
7439-92-1	Lead	1.5	U		P	
7439-95-4	Magnesium	36.7	U		P	
7439-96-5	Manganese	0.6	B	~~E~~	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.5	B		P	
7440-09-7	Potassium	42.1	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-23-5	Sodium	292	B		P	
7440-28-0	Thallium	2.6	U		P	
7440-62-2	Vanadium	0.8	U		P	
7440-66-6	Zinc	3.9	B		P	J

9/23/05 MH

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000270

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/18/04 Time: 1140

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	125	104	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	23.2	116	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.00	90	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.30	93	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	17.4	87	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	89.8	90	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	31.5	63	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.10	101	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	28.0	93	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	73.3	92	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	6.20	62	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	18.5	92	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	20.1	100	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	92.2	92	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	30.3	76	ug/L	ILM04.1 - CLP Metals	P

000273

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/18/04 Time: 1445

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	127	106	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	22.6	113	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	8.90	89	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	17.8	89	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	89.8	90	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	31.4	63	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	4.70	78	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	27.9	93	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	74.1	93	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	6.40	64	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	17.5	87	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	19.7	99	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	91.8	92	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	30.1	75	ug/L	ILM04.1 - CLP Metals	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204030804

Calibration Source: 106-61-2 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 03/18/04 Time: 1537

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	130	108	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	22.5	113	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.30	93	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.90	99	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	19.6	98	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	94.9	95	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	34.5	69	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	7.40	123	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	28.9	96	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	78.0	97	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	8.40	84	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	19.0	95	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	23.9	120	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	96.7	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	32.3	81	ug/L	ILM04.1 - CLP Metals	P

000274

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3

BLANKS

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	25.8	U	25.8	U	25.8	U	25.8	U	25.800	U	P
Antimony	11.3	B	19.8	B	7.5	B	20.4	B	6.501	B	P
Arsenic	3.1	B	4.5	B	4.9	B	3.7	B	2.900	U	P
Barium	0.4	B	0.3	B	0.3	U	0.3	U	0.300	U	P
Beryllium	0.1	U	0.1	U	0.1	B	0.1	U	0.100	U	P
Cadmium	0.6	B	1.6	B	0.3	B	3.5	B	0.550	B	P
Calcium	7.5	U	7.5	U	25.2	B	11.7	B	7.500	U	P
Chromium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Cobalt	0.4	U	0.4	U	0.4	U	0.7	B	0.449	B	P
Copper	14.0	B	21.9	B	10.7	B	15.8	B	9.969	B	P
Iron	14.1	U	17.6	B	14.1	U	26.8	B	14.000	U	P
Lead	1.5	U	2.1	B	2.5	B	1.5	U	1.500	U	P
Magnesium	36.7	U	36.7	U	36.7	U	36.7	U	36.700	U	P
Manganese	0.4	B	0.3	B	0.4	B	0.3	B	0.772	B	P
Mercury	-0.1	B	-0.1	B	-0.1	B	-0.1	B	0.100	U	AV
Nickel	0.7	U	1.2	B	0.8	B	2.2	B	0.931	B	P
Potassium	42.1	U	42.1	U	42.1	U	42.1	U	42.100	U	P
Selenium	4.4	U	4.4	U	4.4	U	4.4	U	-4.403	B	P
Silver	0.5	B	0.4	U	-1.3	B	0.4	U	-0.835	B	P
Sodium	45.4	U	45.4	U	45.4	U	45.4	U	85.108	B	P
Thallium	-3.6	B	2.6	U	-2.8	B	2.6	U	-3.681	B	P
Vanadium	0.8	U	0.8	U	-1.1	B	-0.9	B	0.800	U	P
Zinc	7.1	B	8.9	B	7.3	B	10.3	B	7.264	B	P
Cyanide	0.500	U	0.500	U	0.500	U			0.500	U	AS

000275

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U.S. EPA - CLP

3

BLANKS

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Preparation Blank Matrix: (soil / water) Water

Preparation Blank Concentration Units: (ug/L / mg/kg) ug/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	5	C	6	C	Prepa-ration Blank	C	M
Aluminum			25.8	U					25.800	U	P
Antimony			19.1	B					3.700	U	P
Arsenic			2.9	U					2.990	B	P
Barium			0.3	U					0.300	U	P
Beryllium			0.1	U					0.100	U	P
Cadmium			1.6	B					0.200	U	P
Calcium			10.6	B					23.995	B	P
Chromium			0.8	U					-1.275	B	P
Cobalt			1.1	B					0.445	B	P
Copper			24.6	B					3.617	B	P
Iron			35.9	B					14.000	U	P
Lead			2.0	B					1.500	U	P
Magnesium			36.7	U					36.700	U	P
Manganese			0.2	B					0.332	B	P
Mercury									0.100	U	AV
Nickel			2.2	B					0.877	B	P
Potassium			42.1	U					42.100	U	P
Selenium			4.4	U					4.400	U	P
Silver			0.4	U					-2.198	B	P
Sodium			45.4	U					88.654	B	P
Thallium			-4.0	B					-2.923	B	P
Vanadium			0.8	U					-1.051	B	P
Zinc			9.8	B					5.114	B	P
Cyanide											AS

000276

RESUBMITTED

MS/MSD RECOVERY

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No: SKSWD031009

SAMPLE NO. : ***20403080403***

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Aluminum	ug/L	2000	1800	3820	101		75 - 125
Antimony	ug/L	100	5.2	109	104		75 - 125
Arsenic	ug/L	40	2.9	48.3	~~121~~ 114		75 - 125
Barium	ug/L	2000	40	1980	97		75 - 125
Beryllium	ug/L	50	.2	49.6	99		75 - 125
Cadmium	ug/L	50	.2	48	96		75 - 125
Chromium	ug/L	200	1.4	197	98		75 - 125
Cobalt	ug/L	500	1.5	461	92		75 - 125
Copper	ug/L	250	11	247	94		75 - 125
Iron	ug/L	1000	2200	3090	89		75 - 125
Lead	ug/L	20	1.5	18.3	92		75 - 125
Manganese	ug/L	500	87.5	573	97		75 - 125
Mercury	ug/L	5	.1	4.9	99		75 - 125
Nickel	ug/L	500	2.5	464	92		75 - 125
Selenium	ug/L	10	4.4	4.4	0	N	75 - 125
Silver	ug/L	50	.4	47.7	95		75 - 125
Thallium	ug/L	50	2.6	43.2	86		75 - 125
Vanadium	ug/L	500	2.2	499	99		75 - 125
Zinc	ug/L	500	14.6	452	88		75 - 125
Cyanide	ug/L	100	.8	90.9	90		75 - 125

9/22/05

 # Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 1 out of 20 outside limits

000279

RESUBMITTED

MS/MSD RECOVERY

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No: SKSWD031009 (DISS)

SAMPLE NO. : 20403080410

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	#	*QC. LIMITS*
Aluminum	ug/L	2000	34.6	2050	101		75 - 125
Antimony	ug/L	100	3.7	115	115		75 - 125
Arsenic	ug/L	40	5.3	48.7	109		75 - 125
Barium	ug/L	2000	29.8	2010	99		75 - 125
Beryllium	ug/L	50	.2	50.6	101		75 - 125
Cadmium	ug/L	50	.2	49.6	99		75 - 125
Chromium	ug/L	200	.8	201	101		75 - 125
Cobalt	ug/L	500	.4	471	94		75 - 125
Copper	ug/L	250	4.6	247	97		75 - 125
Iron	ug/L	1000	17.2	1020	100		75 - 125
Lead	ug/L	20	1.5	16.9	84		75 - 125
Manganese	ug/L	500	3	500	99		75 - 125
Mercury	ug/L	5	.1	5.1	101		75 - 125
Nickel	ug/L	500	1.4	475	95		75 - 125
Selenium	ug/L	10	4.4	5	50	N	75 - 125
Silver	ug/L	50	.4	49.3	99		75 - 125
Thallium	ug/L	50	2.6	42.3	85		75 - 125
Vanadium	ug/L	500	.8	509	102		75 - 125
Zinc	ug/L	500	.6	444	89		75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 1 out of 19 outside limits

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD031009PDS

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

% Solids for Sample: Level: (low / med) _____

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Aluminum			6730		1800		5000	99		P
Antimony			475		5.2	B	500	94		P
Arsenic			474		2.9	U	500	95		P
Barium			492		40	B	500	90		P
Beryllium			450		.2	B	500	90		P
Cadmium			439		.2	U	500	88		P
Calcium			134000		131000		5000	59		P
Chromium			452		1.4	B	500	90		P
Cobalt			430		1.5	B	500	86		P
Copper			453		11	B	500	88		P
Iron			6590		2200		5000	88		P
Lead			435		1.5	U	500	87		P
Magnesium			36000		31600		5000	88		P
Manganese			533		87.5		500	89		P
Nickel			428		2.5	B	500	85		P
Potassium			13500		4170	B	10000	93		P
Selenium			442		4.4	U	500	88		P
Silver			453		.4	U	500	91		P
Sodium			31000		12600		20000	92		P
Thallium			447		2.6	U	500	89		P
Vanadium			460		2.2	B	500	92		P
Zinc			425		14.6	B	500	82		P

Comments:

000281

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD031009 (DISS)PDS

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

% Solids for Sample: Level: (low / med) _____

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum			5080		34.6	B	5000	101		P
Antimony			511		3.7	U	500	102		P
Arsenic			535		5.3	B	500	106		P
Barium			536		29.8	B	500	101		P
Beryllium			512		.2	B	500	102		P
Cadmium			493		.2	U	500	99		P
Calcium			136000		125000		5000	220		P
Chromium			507		.8	U	500	101		P
Cobalt			483		.4	U	500	97		P
Copper			511		4.6	B	500	101		P
Iron			4990		17.2	B	5000	99		P
Lead			489		1.5	U	500	98		P
Magnesium			37300		30400		5000	136		P
Manganese			502		3	B	500	100		P
Nickel			479		1.4	B	500	96		P
Potassium			14100		3570	B	10000	105		P
Selenium			497		4.4	U	500	99		P
Silver			512		.4	U	500	102		P
Sodium			33900		12200		20000	108		P
Thallium			496		2.6	U	500	99		P
Vanadium			515		.8	U	500	103		P
Zinc			458		.6	U	500	92		P

Comments:

000282

RESUBMITTED

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6

DUPLICATES

EPA SAMPLE NO

SKSWD03DUP1009(DISS)

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.:

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	-	34.6	B	38.3	B	10		P
Antimony	-	3.7	U	3.7	U	0		P
Arsenic	-	5.3	B	2.9	U	200		P
Barium	-	29.8	B	29.4	B	1		P
Beryllium	-	.2	B	.1	B	67		P
Cadmium	-	.2	U	.2	U	0		P
Calcium	0 - 20	125000		118000		6		P
Chromium	-	.8	U	.8	U	0		P
Cobalt	-	.4	U	1.7	B	200		P
Copper	-	4.6	B	12.2	B	90		P
Iron	-	17.2	B	21.5	B	22		P
Lead	-	1.5	U	1.5	U	0		P
Magnesium	0 - 20	30400		29100		4		P
Manganese	-	3	B	3.6	B	18		P
Mercury	-	.1	U	.1	U	0		AV
Nickel	-	1.4	B	3.7	B	90		P
Potassium	-	3570	B	3310	B	8		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	.4	U	.4	U	0		P
Sodium	0 - 5000	12200		11700		500		P
Thallium	-	2.6	U	2.6	U	0		P
Vanadium	-	.8	U	.8	U	0		P
Zinc	-	.6	U	6	B	200		P

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DUPLICATES

EPA SAMPLE NO
SKSWD03DUP1009

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

% Solids for Sample: _____ % Solids for Duplicate: _____

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	0 - 20	1800		1940		7		P
Antimony	-	5.2	B	3.7	U	200		P
Arsenic	-	2.9	U	2.9	U	0		P
Barium	-	40	B	40.8	B	2		P
Beryllium	-	.2	B	.2	B	0		P
Cadmium	-	.2	U	.2	U	0		P
Calcium	0 - 20	131000		127000		3		P
Chromium	-	1.4	B	1.6	B	13		P
Cobalt	-	1.5	B	1.4	B	7		P
Copper	-	11	B	8.4	B	27		P
Iron	0 - 20	2200		2170		1		P
Lead	-	1.5	U	1.5	U	0		P
Magnesium	0 - 20	31600		31000		2		P
Manganese	0 - 20	87.5		86.7		.9		P
Mercury	-	.1	U	.1	U	0		AV
Nickel	-	2.5	B	2.8	B	11		P
Potassium	-	4170	B	4130	B	1		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	.4	U	.4	U	0		P
Sodium	0 - 5000	12600		12200		400		P
Thallium	-	2.6	U	2.6	U	0		P
Vanadium	-	2.2	B	2.4	B	9		P
Zinc	-	14.6	B	12.5	B	15		P
Cyanide	-	.8	B	.5	U	200		AS

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7

LABORATORY CONTROL SAMPLE

Lab Name: PROJ AAH GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: _____

Solid LCS Source: _____

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L)			Solid (mg/kg)			
	True	Found	% R	True	Found	C	% R
Aluminum	2000	2130	107				
Antimony	500	564	113				
Arsenic	2000	2070	103				
Barium	2000	2030	101				
Beryllium	50.0	52.0	104				
Cadmium	50.0	51.6	103				
Calcium	12500	13000	104				
Chromium	200	201	100				
Cobalt	500	493	99				
Copper	250	274	110				
Iron	1000	1060	106				
Lead	500	509	102				
Magnesium	12500	13000	104				
Manganese	500	508	102				
Nickel	500	501	100				
Potassium	12500	12400	99				
Selenium	2000	2000	100				
Silver	50.0	50.4	101				
Sodium	12500	12800	102				
Thallium	2000	2020	101				
Vanadium	500	519	104				
Zinc	500	469	94				

000285

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LABORATORY CONTROL SAMPLE

Lab Name: PROJ AAH GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: _____

Solid LCS Source: _____

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2200	110				
Antimony	500	587	117				
Arsenic	2000	2160	108				
Barium	2000	2100	105				
Beryllium	50.0	53.9	108				
Cadmium	50.0	54.0	108				
Calcium	12500	13600	109				
Chromium	200	210	105				
Cobalt	500	511	102				
Copper	250	288	115				
Iron	1000	1080	108				
Lead	500	530	106				
Magnesium	12500	13500	108				
Manganese	500	526	105				
Nickel	500	520	104				
Potassium	12500	13000	104				
Selenium	2000	2080	104				
Silver	50.0	54.3	109				
Sodium	12500	13500	108				
Thallium	2000	2110	105				
Vanadium	500	538	108				
Zinc	500	491	98				

000286

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSWD031009SD

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No. _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	1800		2330		29.4	E	P
Antimony	5.2	B	22.6	B	335		P
Arsenic	2.9	U	21.3	B			P
Barium	40.0	B	41.9	B	4.8		P
Beryllium	0.2	B	0.5	U	150		P
Cadmium	0.2	U	1.0	U			P
Calcium	131000		132000		.8		P
Chromium	1.4	B	4.0	U	186		P
Cobalt	1.5	B	2.0	U	33.3		P
Copper	11.0	B	6.0	U	45.5		P
Iron	2200		2370		7.7		P
Lead	1.5	U	7.5	U			P
Magnesium	31600		31700		.3		P
Manganese	87.5		91.7		4.8		P
Nickel	2.5	B	3.6	B	44		P
Potassium	4170	B	3990	B	4.3		P
Selenium	4.4	U	22.0	U			P
Silver	0.4	U	2.0	U			P
Sodium	12600		12100	B	4		P
Thallium	2.6	U	13.0	U			P
Vanadium	2.2	B	4.0	U	81.8		P
Zinc	14.6	B	3.0	U	79.5	E	P

000288

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSWD031009 (DISS)SD

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No. _____ Contract: _____

Matrix: (soil / water) Water SAS No.: _____ SDG No.: _____

Level: (low / med) _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	34.6	B	148	B	328		P
Antimony	3.7	U	18.5	U			P
Arsenic	5.3	B	14.5	U	174		P
Barium	29.8	B	28.5	B	4.4		P
Beryllium	0.2	B	0.5	U	150		P
Cadmium	0.2	U	1.0	U			P
Calcium	125000		126000		.8		P
Chromium	0.8	U	4.0	U			P
Cobalt	0.4	U	2.0	U			P
Copper	4.6	B	6.0	U	30.4		P
Iron	17.2	B	86.8	B	405		P
Lead	1.5	U	7.5	U			P
Magnesium	30400		30500		.3		P
Manganese	3.0	B	7.2	B	140	E	P
Nickel	1.4	B	3.5	U	150		P
Potassium	3570	B	3290	B	7.8		P
Selenium	4.4	U	22.0	U			P
Silver	0.4	U	2.0	U			P
Sodium	12200		12000	B	1.6		P
Thallium	2.6	U	13.0	U			P
Vanadium	0.8	U	4.0	U			P
Zinc	0.6	U	3.0	U			P

000289

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: PROJ AAH GCAL

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: ICP5 Study Date: 04/30/03

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.210		200	25.8	P
Antimony	206.830		60	3.7	P
Arsenic	193.700		10	2.9	P
Barium	233.520		200	.3	P
Beryllium	313.100		5	.1	P
Cadmium	214.430		5	.2	P
Calcium	315.880		5000	7.5	P
Chromium	267.710		10	.8	P
Cobalt	228.610		50	.4	P
Copper	324.750		25	1.2	P
Iron	259.940		100	14.1	P
Lead	220.350		3	1.5	P
Magnesium	279.080		5000	36.7	P
Manganese	257.610		15	.2	P
Nickel	231.600		40	.7	P
Potassium	766.480		5000	42.1	P
Selenium	196.030		5	4.4	P
Silver	328.060		10	.4	P
Sodium	*589.580*		*5000*	*45.4*	*P*
Thallium	190.800		10	2.6	P
Vanadium	290.880		50	.8	P
Zinc	213.860		20	.6	P

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ANALYSIS RUN LOG

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/18/04 End Date: 03/18/04

				Analyte Symbols																						
EPA Sample No.	D/F	Time	% R	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
ICV	1	1108			X	X		X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	
ICV2	1	1114		X			X													X			X				
ICB	1	1133		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1140			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1200		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1206		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1212		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1218			X																						
CCB	1	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB153201	1	1232		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009	1	1239		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD03DUP1009	1	1245		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009SD	5	1252		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWDEB1009	1	1259		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD03D1009	1	1306		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD03MS1009	1	1312		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009PDS	1	1318		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS153202	1	1324		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1337		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1343			X																						
CCB	1	1350		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB153203	1	1357		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009 (DISS)	1	1404		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD03DUP1009(DISS)	1	1411		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009 (DISS)SD	5	1418		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWDEB1009(DISS)	1	1425		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD03D1009 (DISS)	1	1432		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: PROJ AAH GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.:

Instrument ID Number: ICP5 Method Type: P

Start Date: 03/18/04 End Date: 03/18/04

				Analyte Symbols																						
EPA Sample No.	**D/F**	**Time**	**% R**	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Cn
SKSWD03MS1009(DISS)	1	1439		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1445			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1452		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1458		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1504		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1510			X																						
CCB	1	1517		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWD031009 (DISS)PDS	1	1524		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS153204	1	1531		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1537			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1600		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1606		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1612		X		X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1	1618			X																						
CCB	1	1625		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	